



# CITY OF MANKATO

## Community Investment Plan

*Fiscal Years 2020 to 2024*







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# Surface Transportation CIP



## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
2020 Alley Improvements	2020	496,325
2020 Resurfacing	2020	1,204,512
Belle Avenue	2020	1,118,707
Development Project	2020	1,000,000
Germania Park Redevelopment Phase 1	2020	2,209,847
Glenview Avenue	2020	538,304
MN River Trail Bridge	2020	650,000
Parkway Ave	2020	959,619
Petition, Expansion and Major Streets	2020	500,000
Pohl Road and Stadium Road Intersection Improvements	2020	1,296,893
Rail Corridor Quiet Zone Improvements	2020	50,000
State Aid Route Lights	2020	250,000
<b>Subtotal</b>		<b>10,274,207</b>
<b>Total</b>		<b>10,274,207</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
2021 Alley Improvements	2021	374,923
2021 Pavement Rehabilitation	2021	1,260,000
2nd/Good Council Sidewalk	2021	202,290
Development Project	2021	1,000,000
Germania Park Redevelopment Phase 2	2021	1,210,000
Gwyn Drive Reconstruction	2021	524,353
Petition, Expansion and Major Streets	2021	425,000
Stoltzman Trail South	2021	860,000
TH 14 Riverfront Drive intersection improvements	2021	5,705,860
TH 169/Owatonna Street Signal Revisions	2021	185,000
Warren Street	2021	3,861,208
<b>Subtotal</b>		<b>15,608,634</b>
<b>Total</b>		<b>15,608,634</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
2022 Alley Improvements	2022	436,830
2022 Pavement Rehabilitation	2022	910,000
Development Project	2022	1,000,000
Germania Park Redevelopment Phase 3	2022	1,221,000
Petition, Expansion and Major Streets	2022	368,000
Riverfront Drive Main to Madison	2022	5,087,520
Tile Street	2022	1,240,114
<b>Subtotal</b>		<b>10,263,464</b>
<b>Total</b>		<b>10,263,464</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
2nd Street Plum to Madison	2023	2,552,966
Development Projects	2023	1,000,000
Germania Park Redevelopment Phase 4	2023	1,084,000
Hubbel Street	2023	1,779,647
Pavement Rehabilitation	2023	935,000
Petition, Expansion and Major Streets	2023	800,000
Stoltzman Trail North	2023	850,000
<b>Subtotal</b>		<b>9,001,613</b>
<b>Total</b>		<b>9,001,613</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Development Projects	2024	1,000,000
Fourth Street from Main Street to Madison Ave	2024	2,389,052
Germania Park Phase 5	2024	1,252,010
Pavement Rehabilitation	2024	910,000
Petition, Expansion and Major Streets	2024	500,000
Rita Road	2024	1,860,004
<b>Subtotal</b>		<b>7,911,066</b>
<b>Total</b>		<b>7,911,066</b>



## Project: 2020 Alley Improvements

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Alleys proposed for improvement as a part of this project included: 13-282, 13-283, 13-284, 13-286, 13-287, 18-106, 18-156, 18-154 A and B, and 18-183.

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held before the feasibility hearing adjacent property owners.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	25,672	0	0	0	0	25,672
Construction Contingency	38,897	0	0	0	0	38,897
Engineering	42,787	0	0	0	0	42,787
Storm Water	26,265	0	0	0	0	26,265
Street	362,704	0	0	0	0	362,704
<b>Total</b>	<b>496,325</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>496,325</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	342,810	0	0	0	0	342,810
Special Assessments	120,000	0	0	0	0	120,000
Stormwater Utility	33,515	0	0	0	0	33,515
<b>Total</b>	<b>496,325</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>496,325</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2020 Resurfacing

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Rehabilitation of pavement on Riverfront Drive from Carney Avenue to the western terminus. This project will replace deficient curb and gutter, pavement and pedestrian facilities. This project also repairs and replaces miscellaneous sidewalk sections throughout the community.

### Project Justification

Riverfront Drive from Carney Avenue to the end carries nearly 6,000 vehicles per day with approximately 40% of them being heavy commercial vehicles. A majority of these heavy commercial vehicles are accessing the CHS facility at the end of the road. The road currently has an aggregate pavement rating of 52. However, due to the nature of the traffic, this roadway can rapidly deteriorate if the condition is allowed to degrade below a rating of 50. A significant portion of the project cost will be born by CHS.

### Engagement Strategy

Staff will meet with property owners prior to the feasibility hearing at an informational meeting. Additionally staff will coordinate traffic closely with the CHS facility to ensure uninterrupted operations.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	62,302	0	0	0	0	62,302
Contingency	94,397	0	0	0	0	94,397
Engineering	103,837	0	0	0	0	103,837
Sanitary Sewer	9,750	0	0	0	0	9,750
Storm water	26,937	0	0	0	0	26,937
Street	897,342	0	0	0	0	897,342
Watermain	9,947	0	0	0	0	9,947
<b>Total</b>	<b>1,204,512</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,204,512</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	80,536	0	0	0	0	80,536
MSAS	750,000	0	0	0	0	750,000
Sewer Utility	50,000	0	0	0	0	50,000
Special Assessments	239,606	0	0	0	0	239,606
Stormwater Utility	34,370	0	0	0	0	34,370
Water Utility	50,000	0	0	0	0	50,000
<b>Total</b>	<b>1,204,512</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,204,512</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Belle Avenue

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The total reconstruction of Belle Avenue from Long Street to Extension Street. This work will include sanitary sewer, watermain, sewer and water end services, concrete curb and gutter, aggregate base, bituminous pavement, concrete sidewalk, signage and striping.

### Project Justification

This portion of Belle Avenue is one of the final remaining roads in this neighborhood to be reconstructed. The sewer is clay pipe and the water is cast iron pipe dating to the mid-1940's. The roadway as an aggregate pavement rating of 52. In order to ensure reliable uninterrupted service it is recommended that the street and utilities be reconstructed.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	57,864	0	0	0	0	57,864
Contingency	87,673	0	0	0	0	87,673
Engineer	96,441	0	0	0	0	96,441
Sanitary Sewer	116,181	0	0	0	0	116,181
Storm Water	80,915	0	0	0	0	80,915
Street	547,664	0	0	0	0	547,664
Watermain	131,969	0	0	0	0	131,969
<b>Total</b>	<b>1,118,707</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,118,707</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	344,200	0	0	0	0	344,200
Sewer Utility	148,247	0	0	0	0	148,247
Special Assessments	354,620	0	0	0	0	354,620
Stormwater Utility	103,247	0	0	0	0	103,247
Water Utility	168,393	0	0	0	0	168,393
<b>Total</b>	<b>1,118,707</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,118,707</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction October - Project completion

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

### Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

### Project Uses

	2020	2021	2022	2023	2024	Total
Development Project	1,000,000	0	0	0	0	1,000,000
<b>Total</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Special Assessments	1,000,000	0	0	0	0	1,000,000
<b>Total</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

### Project Timeline

A timeline will be developed upon execution of a development or subdividers agreement.

## **Project: Germania Park Redevelopment Phase 1**

Department: STREET PROJECTS

Project Years: 2020 - 2020

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2020.

This project will included improvements on 5th Avenue from the quarry boundary to Spruce Street, 4th Avenue from the quarry boundary to Spruce Street, Maxfield Street from 5th Avenue to 3rd Avenue and Brooks Street from 3rd Avenue to 5th Avenue.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.



## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	114,303	0	0	0	0	114,303
Construction Contingency	173,185	0	0	0	0	173,185
Engineering	190,504	0	0	0	0	190,504
Sanitary Sewer	318,390	0	0	0	0	318,390
Stormwater	65,765	0	0	0	0	65,765
Street	1,084,886	0	0	0	0	1,084,886
Watermain	262,814	0	0	0	0	262,814
<b>Total</b>	<b>2,209,847</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,209,847</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	890,314	0	0	0	0	890,314
Sewer Utility	406,266	0	0	0	0	406,266
Special Assessments	494,000	0	0	0	0	494,000
Stormwater Utility	83,916	0	0	0	0	83,916
Water Utility	335,351	0	0	0	0	335,351
<b>Total</b>	<b>2,209,847</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,209,847</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Glenview Avenue

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Reconstruction of Glenview Avenue from Glenwood Avenue to Main Street. This project will replace the sanitary sewer, domestic water, and storm sewer mains; curb and gutter; aggregate base; bituminous surfacing; sewer and water services to each and every lot; street lighting; signage.

### Project Justification

Glenview Avenue's utilities date to the early 1940s and are recommended for replacement. Additionally the aggregate pavement rating for the street is 13. The age and condition of the infrastructure is approaching the failure point and replacement is recommended.

### Engagement Strategy

A informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	27,843	0	0	0	0	27,843
Contingency	42,187	0	0	0	0	42,187
Engineering	46,405	0	0	0	0	46,405
Sanitary Sewer	44,427	0	0	0	0	44,427
Storm Water	33,621	0	0	0	0	33,621
Street	266,656	0	0	0	0	266,656
Watermain	77,165	0	0	0	0	77,165
<b>Total</b>	<b>538,304</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>538,304</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	148,293	0	0	0	0	148,293
Sewer Utility	56,688	0	0	0	0	56,688
Special Assessments	191,960	0	0	0	0	191,960
Stormwater Utility	42,900	0	0	0	0	42,900
Water Utility	98,463	0	0	0	0	98,463
<b>Total</b>	<b>538,304</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>538,304</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: MN River Trail Bridge

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Remove current pedestrian bridge with deficient piles and abutments. The current bridge was a repurposed railroad trestle that is no longer considered serviceable. The piers and abutments have suffered erosion and damage due to flood events in 2014, 2016, and 2018, and need to be restructured with adequate stabilization to meet the current and future hydraulics of the stream ensuring its resilience to climate change. The option to utilize a historic structure for this crossing is available. The use of the historic structure is dependent on Mankato Township procuring adequate funding to remove and rehabilitate the Kern Bridge (formerly MnDOT Bridget No. L5669). The bridge is listed in the National Register of Historic Places (National Register) as the only example of a bowstring through-truss/arch bridge in Minnesota. It holds exceptional significance as the longest bowstring truss/arch in the United States and the second longest in North America. Should the Kern Bridge be unable to be utilized at the North Minnesota River Trail crossing, the replacement bridge would be a modern, compliant, accessible, engineered structure.

### Project Justification

The current bridge that crosses the Minnesota River is in a state that is unserviceable due to deficient piles and abutments. The replacement bridge would be a modern, compliance and accessible pre-engineered structure. This bridge is a critical waterway crossing of a regional trail that links Mankato to points south and west of the Sakatah Singing Hills State Trail and will serve as a link in the Minnesota River Trail.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	38,793	0	0	0	0	38,793
Construction	487,774	0	0	0	0	487,774
Contingency	58,777	0	0	0	0	58,777
Engineering	64,656	0	0	0	0	64,656
<b>Total</b>	<b>650,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Grant	228,375	0	0	0	0	228,375
Sales Tax	421,625	0	0	0	0	421,625
<b>Total</b>	<b>650,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650,000</b>

## Project Timeline

January Design

March Bid

October Completion

## Project: Parkway Ave

Department: STREET PROJECTS

Project Years: 2020 - 2020

## Project Description

Reconstruction of Parkway Avenue from Glenwood Avenue to Rita Road. This project will replace the sanitary sewer, water main, end services, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement, signage and striping.

## Project Justification

Parkway Avenue has suffered from watermain breaks averaging just over 1 per year for the last 5 years. Additionally the road has an aggregate pavement rating of 48 and is continuing to deteriorate. Without major rehabilitation to the road and utilities further deterioration will continue until the point of failure.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	49,635	0	0	0	0	49,635
Contingency	75,206	0	0	0	0	75,206
Engineering	82,726	0	0	0	0	82,726
Sanitary Sewer	108,933	0	0	0	0	108,933
Storm Water	147,641	0	0	0	0	147,641
Street	368,032	0	0	0	0	368,032
Watermain	127,446	0	0	0	0	127,446
<b>Total</b>	<b>959,619</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>959,619</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	229,021	0	0	0	0	229,021
Sewer Utility	138,999	0	0	0	0	138,999
Special Assessments	240,588	0	0	0	0	240,588
Stormwater Utility	188,390	0	0	0	0	188,390
Water Utility	162,621	0	0	0	0	162,621
<b>Total</b>	<b>959,619</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>959,619</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2020	2021	2022	2023	2024	Total
Petition Project	500,000	0	0	0	0	500,000
<b>Total</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	500,000	0	0	0	0	500,000
<b>Total</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Project Timeline

A project schedule will be developed upon receiving the petition.



## Project: Pohl Road and Stadium Road Intersection Improvements

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

The Pohl Road and Stadium Road Intersection improvements is a safety and intersection capacity improvement that will install a roundabout at this intersection. Also included with this project will be pavement rehabilitation on Pohl Road between Balcerzak Drive and Stadium Road. This is in the Long Range Transportation Plan as a short term project. This project will be done in conjunction with Blue Earth County.

### Project Justification

Currently there are 12,100 vehicles per day on Stadium Road and 5,100 vehicles per day on Pohl Road. Stadium Road serves as the principle access to Minnesota State University - Mankato. This intersection also has a crash rate that is above the typical value for a similar intersection and by constructing the roundabout, the crash rate will be reduced by almost 50%.

### Engagement Strategy

An informational meeting will be held for interested members of the public prior to the feasibility hearing in conjunction with Blue Earth County Public Works staff.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	65,788	0	0	0	0	65,788
Contingency	99,678	0	0	0	0	99,678
Engineering	109,646	0	0	0	0	109,646
Right-of-Way	25,000	0	0	0	0	25,000
Sanitary Sewer	4,060	0	0	0	0	4,060
Storm Water	112,479	0	0	0	0	112,479
Street	880,242	0	0	0	0	880,242
<b>Total</b>	<b>1,296,893</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,296,893</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
ATP	795,814	0	0	0	0	795,814
Blue Earth County	165,324	0	0	0	0	165,324
G.O. Bonding	196,220	0	0	0	0	196,220
Special Assessments	139,535	0	0	0	0	139,535
<b>Total</b>	<b>1,296,893</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,296,893</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Rail Corridor Quiet Zone Improvements

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Quiet zone improvements for rail corridor through Mankato

A rough cost estimate is: roughly 10 crossings or less on a single rail line is about \$25,000. Roughly 20 crossings on a single rail line would be about \$30,000-35,000. These are just informal cost estimates. According to Mr. Mielke a typical Quiet Zones study includes:

- ◆ Consultant team collects crossing information through the FRA's website. Produce base map of corridor and develop individual crossing maps and preliminary assessment.
- ◆ An on-site diagnostic meeting is held. Gets all the players together, including the FRA and pertinent private railroads. This includes the owner of the railroad in question, and other rail firms that use the track(s) identified. You invite MnDOT folks, those that participate in Quiet Zones. Also the agencies that manage the concerned streets, whether it's the City or the County. You can also involve emergency services and school district. You then take the whole group on an actual field visit to each crossing and brainstorm. You come up with a variety of options for each crossing.

**Note:** there is an option for a public meeting at this point, which some clients elect to do depending on size/scope/funding availability/policy, etc.

### Project Justification

Since the mid 1990's, there has been discussion and planning for quiet zone improvements for the rail corridor through Mankato. However, the level of improvement have not qualified for FRA designation and train warning devices continue to cause disturbances in neighborhoods and throughout the City.

### Engagement Strategy

conduct neighborhood and industry outreach to determine scope of improvements and access concerns.

### Project Uses

	2020	2021	2022	2023	2024	Total
Feasibility and design	50,000	0	0	0	0	50,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
MSA	50,000	0	0	0	0	50,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

## Project Timeline

2020- begin and complete feasibility and design of rail corridor improvements and submit to FRA for approval. Include available grant funding. Initial focus on Sibley Park and Germania Park neighborhoods

2021 - continue explore grant and partnership funding opportunities - possible construction

2022 - 2028 construct improvements

## Project: State Aid Route Lights

Department: STREET PROJECTS

Project Years: 2020 - 2020

### Project Description

Install feed point and convert all non-metered lights to LED.

### Project Justification

As a part of the energy savings project performed in 2017 all metered light systems were converted to LED lights. There are some lighting systems that do not have meters at their feed-points. Once the feed points are metered the remaining street lights operated by the City of Mankato can be converted to LED fixtures.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bonding and Administration	12,931	0	0	0	0	12,931
Construction	195,925	0	0	0	0	195,925
Contingency	19,592	0	0	0	0	19,592
Engineering	21,552	0	0	0	0	21,552
<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
MSAS	250,000	0	0	0	0	250,000
<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

### Project Timeline

January - Design

February - Feasibility hearing

## Project: 2021 Alley Improvements

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Pavement and drainage improvements will be made to Alleys: 13-304, 13-302, 13-153, 13-176, 13-177, 13-103, 13-127, 13-102.

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	19,393	0	0	0	19,393
Construction Contingency	0	29,383	0	0	0	29,383
Engineering	0	32,321	0	0	0	32,321
Storm Water	0	33,865	0	0	0	33,865
Street	0	259,961	0	0	0	259,961
<b>Total</b>	<b>0</b>	<b>374,923</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>374,923</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	216,031	0	0	0	216,031
Special Assessments	0	115,680	0	0	0	115,680
Stormwater Utility	0	43,212	0	0	0	43,212
<b>Total</b>	<b>0</b>	<b>374,923</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>374,923</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - ConstructionOctober - Project completion

## Project: 2021 Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Rehabilitation of pavement on various streets in Mankato - including the resurfacing of River-front Dr from Sibley St to Stoltzman Rd.

### Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bonding	0	65,172	0	0	0	65,172
Construction Cost	0	987,461	0	0	0	987,461
Contingency	0	98,746	0	0	0	98,746
Engineering	0	108,621	0	0	0	108,621
<b>Total</b>	<b>0</b>	<b>1,260,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,260,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	850,000	0	0	0	850,000
Sewer Utility	0	50,000	0	0	0	50,000
Special Assessments	0	300,000	0	0	0	300,000
Stormwater Utility	0	10,000	0	0	0	10,000
Water Utility	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>1,260,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,260,000</b>



## **Project Timeline**

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2nd/Good Council Sidewalk

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	0	202,290	0	0	0	202,290
<b>Total</b>	<b>0</b>	<b>202,290</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202,290</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	184,179	0	0	0	184,179
Special Assessments	0	14,316	0	0	0	14,316
Stormwater Utility	0	3,795	0	0	0	3,795
<b>Total</b>	<b>0</b>	<b>202,290</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202,290</b>

## Project: Development Project

Department: STREET PROJECTS

Project Years: 2021 - 2021

## Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

## Project Uses

	2020	2021	2022	2023	2024	Total
Development Project	0	1,000,000	0	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Special Assessments	0	1,000,000	0	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

A timeline will be developed once a development or subdivision agreement is executed.

## **Project: Germania Park Redevelopment Phase 2**

Department: STREET PROJECTS

Project Years: 2021 - 2021

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

This project will included improvements on 5th Avenue from the quarry boundary to Spruce Street, 4th Avenue from the quarry boundary to Spruce Street, Maxfield Street from 5th Avenue to 3rd Avenue and Brooks Street from 3rd Avenue to 5th Avenue.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	62,586	0	0	0	62,586
Contingency	0	94,828	0	0	0	94,828
Engineering	0	104,310	0	0	0	104,310
Sanitary Sewer	0	98,745	0	0	0	98,745
Storm Water	0	58,786	0	0	0	58,786
Street	0	522,491	0	0	0	522,491
Watermain	0	268,254	0	0	0	268,254
<b>Total</b>	<b>0</b>	<b>1,210,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,210,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	311,000	0	0	0	311,000
Sewer Utility	0	114,000	0	0	0	114,000
Special Assessments	0	428,000	0	0	0	428,000
Stormwater Utility	0	65,000	0	0	0	65,000
Water Utility	0	292,000	0	0	0	292,000
<b>Total</b>	<b>0</b>	<b>1,210,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,210,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Gwyn Drive Reconstruction

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

There will be a total reconstruction of Gwyn Drive. Resurface is included in that, along with replacing the watermain, storm and sewer systems.

### Project Justification

The systems are extremely old dating back to 1940s and are in need of replacement. The aggregate pavement rating is 54. While Gwyn Drive is generally a local road, it does see increased traffic as it serves as the primary access to the community of Skyline.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	27,122	0	0	0	27,122
Construction Contingency	0	41,093	0	0	0	41,093
Engineering	0	45,203	0	0	0	45,203
Sanitary Sewer	0	69,982	0	0	0	69,982
Storm Water	0	23,253	0	0	0	23,253
Street	0	232,378	0	0	0	232,378
Watermain	0	85,322	0	0	0	85,322
<b>Total</b>	<b>0</b>	<b>524,353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>524,353</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	136,217	0	0	0	136,217
Sewer Utility	0	81,180	0	0	0	81,180
Special Assessments	0	160,313	0	0	0	160,313
Stormwater Utility	0	47,669	0	0	0	47,669
Water Utility	0	98,974	0	0	0	98,974
<b>Total</b>	<b>0</b>	<b>524,353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>524,353</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2020	2021	2022	2023	2024	Total
Petition Project	0	425,000	0	0	0	425,000
<b>Total</b>	<b>0</b>	<b>425,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>425,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	425,000	0	0	0	425,000
<b>Total</b>	<b>0</b>	<b>425,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>425,000</b>

### Project Timeline

A timeline will be developed upon receiving.



## Project: Stoltzman Trail South

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Stoltzman Trail South spans from the south end to Fairfield Ave.

### Project Justification

Stoltzman Trail is intended to provide connectivity and ease pedestrian travel in the area. It will provide access to the newly built Stoltzman Park.

### Project Uses

	2020	2021	2022	2023	2024	Total
Stoltzman Trail	0	860,000	0	0	0	860,000
<b>Total</b>	<b>0</b>	<b>860,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>860,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Blue Earth County	0	360,000	0	0	0	360,000
MSAS	0	500,000	0	0	0	500,000
<b>Total</b>	<b>0</b>	<b>860,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>860,000</b>

### Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: TH 14 Riverfront Drive intersection improvements

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

This project would construct two roundabouts at the ramps on TH 14 and Riverfront Drive. This is an intersection that has been identified in the LRTP for capacity improvement. This would be a joint project between MnDOT, Blue Earth County and the City of Mankato

### Project Justification

Currently the ramps on TH 14 and Riverfront Drive operate at a low level of service during peak times. As a part of the LRTP it was recommended that roundabouts be constructed at each of the ramps to improve capacity, level of service and reduce delay.

### Project Uses

	2020	2021	2022	2023	2024	Total
Unidentified	0	5,705,860	0	0	0	5,705,860
<b>Total</b>	<b>0</b>	<b>5,705,860</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,705,860</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Blue Earth County	0	713,225	0	0	0	713,225
MnDOT	0	4,279,350	0	0	0	4,279,350
MSAS	0	713,285	0	0	0	713,285
<b>Total</b>	<b>0</b>	<b>5,705,860</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,705,860</b>

### Project Timeline

In development

## Project: TH 169/Owatonna Street Signal Revisions

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

Replacement of existing signal system at the intersection of TH 169 ramps and Owatonna Street.

### Project Justification

This improvement was identified both the Mankato Area Planning Organization Long Range Transportation Plan and the Riverfront Drive Corridor Study. This project will replace the signals at the TH 169 Ramps at Owatonna Street and Riverfront Drive. This will allow for the installation triple left turn lanes a aid in reducing the AM Peak. This is especially evident with the south-bound TH 169 movement to eastbound Riverfront Drive. Over 670 vehicles make this left-turn today in the AM peak hour and this number is anticipated to rise to 860 by 2041.

### Project Uses

	2020	2021	2022	2023	2024	Total
New Signal System	0	185,000	0	0	0	185,000
<b>Total</b>	<b>0</b>	<b>185,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
MnDOT	0	185,000	0	0	0	185,000
<b>Total</b>	<b>0</b>	<b>185,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185,000</b>

### Project Timeline

This project will be lead by MnDOT and a schedule will be developed at the project approaches.

## Project: Warren Street

Department: STREET PROJECTS

Project Years: 2021 - 2021

### Project Description

The reconstruction of Warren Street from Glenwood Avenue to Riverfront Drive. The project will install new sanitary sewer, watermain, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement sidewalks, end services, signage, striping and signals. The road section installed will be dependent on the outcome of the Warren Street Corridor conducted in 2019 or 2020 by the Mankato Area Planning Organization Study.

### Project Justification

This segment of Warren Street currently has over 9000 vehicles per day traveling along it. It was originally a concrete street that was overlaid in 2007 with bituminous pavement. The aggregate pavement rating is 53 and is continuing to deteriorate. Additionally a major sanitary sewer line dating to the late 1930's is in this segment of Warren Street and is reaching the end of its life. This sewer line provides service to all of the area south of Balcerzak Drive and west of Pohl Road. This is highly critical infrastructure that will require proactive preservation activities to prevent failure and unscheduled emergency maintenance.

### Engagement Strategy

A corridor study will be performed by the Mankato Area Planning Organization in 2019 or 2020. As a part of this study a robust public engagement process will be conducted. Additionally as the project nears construction an informational meeting will be held with the adjacent property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	199,717	0	0	0	199,717
Contingency	0	302,603	0	0	0	302,603
Engineering	0	332,863	0	0	0	332,863
Sanitary Sewer	0	576,260	0	0	0	576,260
Storm Water	0	215,119	0	0	0	215,119
Street	0	1,988,202	0	0	0	1,988,202
Watermain	0	246,444	0	0	0	246,444
<b>Total</b>	<b>0</b>	<b>3,861,208</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,861,208</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
City MSA	0	1,250,000	0	0	0	1,250,000
G.O. Bonding	0	599,648	0	0	0	599,648
Sewer Utility	0	735,308	0	0	0	735,308
Special Assessments	0	687,297	0	0	0	687,297
Stormwater Utility	0	274,492	0	0	0	274,492
Water Utility	0	314,463	0	0	0	314,463
<b>Total</b>	<b>0</b>	<b>3,861,208</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,861,208</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: 2022 Alley Improvements

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Pavement and drainage improvements of the following alleys in the Lincoln Park Neighborhood: 13-404,13-477, 13-478, 13-437 E/W, 13-437 N/S, 18-303, 18-304, 18-305, 18-328A

### Project Justification

In June of 2009, Short Elliott Hendrickson Inc. (SEH) was approved by the City of Mankato to develop an Alley Master Plan to assist in more efficiently programming alley improvements over the next 5 to 10 years. After the 2017 construction year, using the guidelines that were established for the 2009 Alley Master Plan, City Staff drafted an annex to the Alley Plan for years 2018-2022. The alleys in this study are the remainder of the alleys that were identified as a part of the original study that are in need of improvements. The grouping of projects for each year were established through their geographic location to minimize mobilization and increase contractor efficiencies, ensuring minimal disruption to neighborhoods. The projects were also grouped to maintain a consistent per year project cost. After all of the alleys within this appendix to the Master Plan are completed all future alley improvements shall be done through property owner petitions or on an as needed basis for maintenance activities as identified by city staff.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	0	22,594	0	0	22,594
Construction Contingency	0	0	34,234	0	0	34,234
Engineering	0	0	37,658	0	0	37,658
Storm Water	0	0	53,762	0	0	53,762
Street	0	0	288,582	0	0	288,582
<b>Total</b>	<b>0</b>	<b>0</b>	<b>436,830</b>	<b>0</b>	<b>0</b>	<b>436,830</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	275,830	0	0	275,830
Special Assessments	0	0	92,400	0	0	92,400
Stormwater Utility	0	0	68,600	0	0	68,600
<b>Total</b>	<b>0</b>	<b>0</b>	<b>436,830</b>	<b>0</b>	<b>0</b>	<b>436,830</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: 2022 Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Rehabilitation of pavement on various streets in Mankato

### Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

### Engagement Strategy

An informational meeting will be held prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bonding	0	0	47,069	0	0	47,069
Construction Cost	0	0	713,166	0	0	713,166
Contingency	0	0	71,317	0	0	71,317
Engineering	0	0	78,448	0	0	78,448
<b>Total</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>0</b>	<b>0</b>	<b>910,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	500,000	0	0	500,000
Sewer Utility	0	0	50,000	0	0	50,000
Special Assessments	0	0	300,000	0	0	300,000
Stormwater Utility	0	0	10,000	0	0	10,000
Water Utility	0	0	50,000	0	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>0</b>	<b>0</b>	<b>910,000</b>

### Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Start of construction; October - Project Completion



## Project: Development Project

Department: STREET PROJECTS

Project Years: 2022 - 2022

## Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

## Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

## Project Uses

	2020	2021	2022	2023	2024	Total
Development Project	0	0	1,000,000	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Special Assessments	0	0	1,000,000	0	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>

## Project Timeline

A timeline will be developed upon execution of a development or subdividers agreement.

## **Project: Germania Park Redevelopment Phase 3**

Department: STREET PROJECTS

Project Years: 2022 - 2022

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

The proposed improvements for 2021 include: Harper Street from 8th Avenue to 3rd Avenue; 7th Avenue from Harper Street to the end; and 5th Avenue from Brooks Street to Harper Street.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	0	63,155	0	0	63,155
Contingency	0	0	95,690	0	0	95,690
Engineering	0	0	105,259	0	0	105,259
Sanitary Sewer	0	0	230,902	0	0	230,902
Storm Water	0	0	60,623	0	0	60,623
Street	0	0	422,845	0	0	422,845
Watermain	0	0	242,526	0	0	242,526
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	277,000	0	0	277,000
Sewer Utility	0	0	226,000	0	0	226,000
Special Assessments	0	0	410,000	0	0	410,000
Stormwater Utility	0	0	65,000	0	0	65,000
Water Utility	0	0	243,000	0	0	243,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>	<b>0</b>	<b>0</b>	<b>1,221,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Project Uses

	2020	2021	2022	2023	2024	Total
Petition Project	0	0	368,000	0	0	368,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>368,000</b>	<b>0</b>	<b>0</b>	<b>368,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	368,000	0	0	368,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>368,000</b>	<b>0</b>	<b>0</b>	<b>368,000</b>

### Project Timeline

A timeline will be developed upon receipt of a petition.

## Project: Riverfront Drive Main to Madison

Department: STREET PROJECTS

Project Years: 2022 - 2022

### Project Description

Reconstruction of Riverfront Drive from Main Street to Madison Avenue. This project will reconstruct the surface improvements. The proposed improvements would be the result of the Riverfront Drive demonstration project performed in 2019 as well as other project components identified in the Old Town Masterplan and the Riverfront Drive Corridor Study.

### Project Justification

Riverfront Drive pavement and sidewalks were installed in 1983 and overlaid in 2007. Recent excavation in the pavement have shown that the concrete pavement is reaching the end of its useful life and will need to be replaced. Additionally, the pedestrian facilities are not ADA compliant. In order to bring the pedestrian facilities into compliance portions of the road will need to be regraded due to the lack of a boulevard and the zero setbacks along the corridor. Additionally pedestrian safety crossing improvements are necessary to connect public parking areas with destinations.

### Engagement Strategy

Several public hearings will be held prior to the start of design of this project in 2021. The schedule and scope of the meetings will be developed as the project approaches. Once a final design is set an informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	0	263,147	0	0	263,147
Contingency	0	0	398,709	0	0	398,709
Engineering	0	0	438,580	0	0	438,580
Sanitary Sewer	0	0	196,150	0	0	196,150
Stormwater	0	0	263,641	0	0	263,641
Street	0	0	3,132,954	0	0	3,132,954
Watermain	0	0	394,339	0	0	394,339
<b>Total</b>	<b>0</b>	<b>0</b>	<b>5,087,520</b>	<b>0</b>	<b>0</b>	<b>5,087,520</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	798,522	0	0	798,522
MSAS	0	0	2,171,614	0	0	2,171,614
Sewer Utility	0	0	250,288	0	0	250,288
Special Assessments	0	0	1,027,513	0	0	1,027,513
Stormwater Utility	0	0	336,406	0	0	336,406
Water Utility	0	0	503,177	0	0	503,177
<b>Total</b>	<b>0</b>	<b>0</b>	<b>5,087,520</b>	<b>0</b>	<b>0</b>	<b>5,087,520</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Tile Street

Department: STREET PROJECTS

Project Years: 2022 - 2022

## Project Description

Complete reconstruction on Tile Street from West 11th Street to West 8th Street is necessary. Replacing the pavement, installing new utilities, putting in new curb, gutter, sidewalk, driveway and alley aprons.

## Project Justification

Most of the utilities are from the original install date of the 1920s, showing outdated pipes and deteriorating systems. Along with the road being constructed in that same time period and being in poor conditions. The aggregate pavement rating for Tile Street is 25. Tile street remain one of the few areas in west Mankato where major reconstruction has not been completed.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	0	64,145	0	0	64,145
Construction Contingency	0	0	97,187	0	0	97,187
Engineering	0	0	106,906	0	0	106,906
Sanitary Sewer	0	0	180,450	0	0	180,450
Storm Water	0	0	115,771	0	0	115,771
Street	0	0	492,844	0	0	492,844
Watermain	0	0	182,811	0	0	182,811
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,240,114</b>	<b>0</b>	<b>0</b>	<b>1,240,114</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	295,110	0	0	295,110
Sewer Utility	0	0	230,254	0	0	230,254
Special Assessments	0	0	333,759	0	0	333,759
Stormwater Utility	0	0	147,724	0	0	147,724
Water Utility	0	0	233,267	0	0	233,267
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,240,114</b>	<b>0</b>	<b>0</b>	<b>1,240,114</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion



## Project: 2nd Street Plum to Madison

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Reconstruction of Second Street from Plum Street to Madison Avenue. This project will included installing new sanitary sewer, watermain, storm sewer, concrete curb and gutter, aggregate base, bituminous pavement, sidewalks, signage and striping. This project may also include additional pedestrian crossing safety improvements or intersection control improvements.

### Project Justification

With the connection of the Veterans Memorial Bridge and Mulberry Street to Second Street traffic volumes have increased on Second Street. It is necessary to reconstruct the road to accommodate the increased traffic, while providing for safe pedestrian movements. As activity grows in the Old Town corridor it is necessary to have a secondary route for both motorized and non-motorized traffic. Additionally with the anticipated reconstruction of Riverfront Drive in 2022, Second Street will be a critical component of the transportation system during that project.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	0	0	131,101	0	131,101
Contingency	0	0	0	200,154	0	200,154
Engineering	0	0	0	220,169	0	220,169
Sanitary Sewer	0	0	0	381,814	0	381,814
Storm Water	0	0	0	182,941	0	182,941
Street	0	0	0	1,119,215	0	1,119,215
Watermain	0	0	0	317,572	0	317,572
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,552,966</b>	<b>0</b>	<b>2,552,966</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	375,000	0	375,000
MSAS	0	0	0	298,518	0	298,518
Sewer Utility	0	0	0	487,194	0	487,194
Special Assessments	0	0	0	753,600	0	753,600
Stormwater Utility	0	0	0	233,432	0	233,432
Water Utility	0	0	0	405,222	0	405,222
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,552,966</b>	<b>0</b>	<b>2,552,966</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Development Projects

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

### Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

### Project Uses

	2020	2021	2022	2023	2024	Total
Development Project	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,000,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Special Assessments	0	0	0	1,000,000	0	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,000,000</b>

### Project Timeline

Developed upon execution of agreement

## **Project: Germania Park Redevelopment Phase 4**

Department: STREET PROJECTS

Project Years: 2023 - 2023

### **Project Description**

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

The roads proposed for improvement in 2022 include: 6th Avenue from Harper Street to Cleveland Street; 5th Avenue from Harper Street to Cleveland Street; 4th Avenue from Harper Street to Lind Street; and Lind Street from 6th Avenue to 3rd Avenue.

### **Project Justification**

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards. Fire flow in the CIP area was known to be substandard before construction of water main on Cleveland Street in the summer of 2011, due to a lack of water main looping and small pipe sizes.

### **Engagement Strategy**

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	0	0	56,069	0	56,069
Contingency	0	0	0	84,953	0	84,953
Engineering	0	0	0	93,448	0	93,448
Sanitary Sewer	0	0	0	69,821	0	69,821
Stormwater	0	0	0	58,571	0	58,571
Street	0	0	0	582,884	0	582,884
Watermain	0	0	0	138,254	0	138,254
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,084,000</b>	<b>0</b>	<b>1,084,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	313,000	0	313,000
Sewer Utility	0	0	0	75,000	0	75,000
Special Assessments	0	0	0	481,000	0	481,000
Stormwater Utility	0	0	0	65,000	0	65,000
Water Utility	0	0	0	150,000	0	150,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,084,000</b>	<b>0</b>	<b>1,084,000</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Hubbel Street

Department: STREET PROJECTS

Project Years: 2023 - 2023

## Project Description

The reconstruction of Hubbel Street from Riverfront Drive to Sibley Parkway.

## Project Justification

The sanitary sewer and watermain system are original to the construction of the neighborhood and date to the 1930s. In recent years it has been found that some lots do not have conforming sanitary sewer service and the only way to provide compliant service is through reconstruction of the road. The road also suffers from drainage problems at the location of the rail road crossing.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Hubbel Street reconstruction	0	0	0	1,779,647	0	1,779,647
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,779,647</b>	<b>0</b>	<b>1,779,647</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	508,109	0	508,109
Sewer Utility	0	0	0	298,531	0	298,531
Special Assessments	0	0	0	464,515	0	464,515
Stormwater Utility	0	0	0	229,555	0	229,555
Water Utility	0	0	0	278,937	0	278,937
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,779,647</b>	<b>0</b>	<b>1,779,647</b>

## Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion

## Project: Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2023 - 2023

## Project Description

Rehabilitation of pavement on various streets in Mankato

## Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Pavement Rehabilitation	0	0	0	935,000	0	935,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>935,000</b>	<b>0</b>	<b>935,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	525,000	0	525,000
Sewer Utility	0	0	0	50,000	0	50,000
Special Assessments	0	0	0	300,000	0	300,000
Stormwater Utility	0	0	0	10,000	0	10,000
Water Utility	0	0	0	50,000	0	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>935,000</b>	<b>0</b>	<b>935,000</b>

## Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Petition Project	0	0	0	800,000	0	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>0</b>	<b>800,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	800,000	0	800,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>	<b>0</b>	<b>800,000</b>

### Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion



## Project: Stoltzman Trail North

Department: STREET PROJECTS

Project Years: 2023 - 2023

### Project Description

Stoltzman Trail South spans from the Fairfield Ave to Riverfront Dr.

### Project Justification

Stoltzman Trail is intended to provide connectivity and ease pedestrian travel in the area. It will provide access to the newly built Stoltzman Park.

### Project Uses

	2020	2021	2022	2023	2024	Total
Stoltzman Trail	0	0	0	850,000	0	850,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>850,000</b>	<b>0</b>	<b>850,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Blue Earth County	0	0	0	350,000	0	350,000
MSAS	0	0	0	500,000	0	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>850,000</b>	<b>0</b>	<b>850,000</b>

### Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Development Projects

Department: STREET PROJECTS

Project Years: 2024 - 2024

### Project Description

Improvements for a developer petitioned project as identified in a development or subdivision agreement.

### Project Justification

Developers are able, through the agreement process, to petition and assess project cost through the special assessment process. These projects are 100% assessable. An allowance has been accounted for in the overall Community Investment budget.

### Project Uses

	2020	2021	2022	2023	2024	Total
Development Project	0	0	0	0	1,000,000	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>1,000,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Special Assessments	0	0	0	0	1,000,000	1,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>	<b>1,000,000</b>

### Project Timeline

Developed upon execution of agreement

## Project: Fourth Street from Main Street to Madison Ave

Department: STREET PROJECTS

Project Years: 2024 - 2024

### Project Description

Reconstruction of Fourth Street from Main Street to Madison Avenue. The project will include new sanitary sewer, watermain, storm sewer, curb and gutter, pavement, sidewalks and end services.

### Project Justification

The utilities in Fourth Street date from the late 1800's and are in need of replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	0	0	0	123,573	123,573
Construction Contingency	0	0	0	0	187,229	187,229
Engineering	0	0	0	0	205,952	205,952
Sanitary Sewer	0	0	0	0	232,802	232,802
Storm Water	0	0	0	0	97,577	97,577
Street	0	0	0	0	1,234,705	1,234,705
Watermain	0	0	0	0	307,214	307,214
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,389,052</b>	<b>2,389,052</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	0	759,483	759,483
Sewer Utility	0	0	0	0	297,055	297,055
Special Assessments	0	0	0	0	816,000	816,000
Stormwater Utility	0	0	0	0	124,508	124,508
Water Utility	0	0	0	0	392,006	392,006
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,389,052</b>	<b>2,389,052</b>

### Project Timeline

January - Feasibility February - Hearing March - Bid May - Construction October - Project completion

## Project: Germania Park Phase 5

Department: STREET PROJECTS

Project Years: 2024 - 2024

### Project Description

The reconstruction of 8th Avenue from Harper Street to Cleveland Street; 7th Avenue from Harper Street to Cleveland Street; Lind Street from 8th Avenue to 6th Avenue; Cleveland Street from 8th Avenue and 7th Avenue.

The Germania Park Capital Improvements Plan (CIP) covers an area of Mankato generally bounded by Riverfront Drive, 1st Avenue, Trunk Highway 14 (TH 14), and the Minnesota River. The existing subsurface of this area is predominantly bedrock, which has limited the development to smaller residential developments and industrial businesses. Most of the city-owned infrastructure is original and dates 50 to 75 years in age, with the exception of Pine Street and a few residential streets on the east side of 3rd Avenue.

In 2011, Short Elliott Hendrickson, Inc. was retained by the City of Mankato to develop a master plan for the Germania Park area. This plan originally envisioned the improvements starting in 2015. Due to funding priorities within the Community Investment Plan these projects were delayed until 2019.

### Project Justification

The project area generally has utilities that are 50-75 years old. Sewer is believed to be made of vitrified clay. Vitrified clay is a brittle material susceptible to cracking, joint displacement, root intrusion, and infiltration. The sanitary sewer manholes are of a similar age and likely block or brick built. Due to the age and material build of the sanitary sewer, it is suggested that all sanitary sewer within the project area be reconstructed and replaced with polyvinyl chloride (PVC) pipe. The watermain is most likely made of cast iron, which is susceptible to breaking due to deterioration and freezing conditions in colder weather. It is also 6-inch in diameter, which is undersized compared to current standards.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/Bonding	0	0	0	0	64,759	64,759
Contingency	0	0	0	0	98,120	98,120
Engineering	0	0	0	0	107,932	107,932
Sanitary sewer	0	0	0	0	135,697	135,697
Stormwater	0	0	0	0	88,743	88,743
Streets	0	0	0	0	670,301	670,301
Watermain	0	0	0	0	86,458	86,458
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,252,010</b>	<b>1,252,010</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	0	449,255	449,255
Sewer Utility	0	0	0	0	95,381	95,381
Special Assessments	0	0	0	0	462,000	462,000
Stormwater Utility	0	0	0	0	95,700	95,700
Water Utility	0	0	0	0	149,674	149,674
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,252,010</b>	<b>1,252,010</b>

## Project Timeline

January - Feasibility

February - Hearing

March - Bid

May - Construction

October - Project completion

## Project: Pavement Rehabilitation

Department: STREET PROJECTS

Project Years: 2024 - 2024

## Project Description

Rehabilitation of pavement on various streets in Mankato

## Project Justification

Periodic renewal and improvement of pavement section on various streets is needed to maintain high quality surface transportation network in the City of Mankato. Streets to be evaluated on an annual basis.

## Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Pavement Rehabilitation	0	0	0	0	910,000	910,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>910,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	0	500,000	500,000
Sewer Utility	0	0	0	0	50,000	50,000
Special Assessments	0	0	0	0	300,000	300,000
Stormwater Utility	0	0	0	0	10,000	10,000
Water Utility	0	0	0	0	50,000	50,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>	<b>910,000</b>

## Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion

## Project: Petition, Expansion and Major Streets

Department: STREET PROJECTS

Project Years: 2024 - 2024

### Project Description

Improvement to minor local roads and alleys. Typically pavement and transportation related.

### Project Justification

Each year the Public Works Department receives request for improvements to the transportation system. Many of these project are local streets, or alleys. This budget line item exists to allow for minor projects that are petitioned to be designed and constructed within a single construction season, outside of the normal Community Investment Plan process.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Petition Project	0	0	0	0	500,000	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	0	500,000	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>500,000</b>

### Project Timeline

January - Feasibility, February - Hearing, March - Bid, May - Construction, October - Project completion

## Project: Rita Road

Department: STREET PROJECTS

Project Years: 2024 - 2024

## Project Description

The reconstruction of Rita Road from Monks Avenue to End

## Project Justification

The pavement and utilities need replacement and the road remains one of the few without under drain.

## Project Uses

	2020	2021	2022	2023	2024	Total
Admin/bonding	0	0	0	0	96,207	96,207
Contingency	0	0	0	0	145,768	145,768
Engineering	0	0	0	0	160,346	160,346
Sanitary Sewer	0	0	0	0	220,262	220,262
Storm Water	0	0	0	0	195,481	195,481
Streets	0	0	0	0	822,677	822,677
Watermain	0	0	0	0	219,263	219,263
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,860,004</b>	<b>1,860,004</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
G.O. Bonding	0	0	0	0	491,272	491,272
Sewer Utility	0	0	0	0	281,054	281,054
Special Assessments	0	0	0	0	558,464	558,464
Stormwater Utility	0	0	0	0	249,434	249,434
Water Utility	0	0	0	0	279,780	279,780
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,860,004</b>	<b>1,860,004</b>

## Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion





# Capital Replacement





# COMMUNITY DEVELOPMENT - TRANSIT



## Cash Flow

### Transit

	2020	2021	2022	2023	2024
Projected fund balance	\$ 581,376.00	\$ 635,376.00	\$ 779,376.00	\$ 923,376.00	\$ 1,067,376.00
Revenue	\$ 144,000.00	\$ 144,000.00	\$ 144,000.00	\$ 144,000.00	\$ 144,000.00

**Available Funds**      \$ 725,376.00    \$ 779,376.00    \$ 923,376.00    \$ 1,067,376.00    \$ 1,211,376.00

Project Name	2020	2021	2022	2023	2024	Total	Illustrative
Transit Facility - Boiler Piping Changes & Loop Pumps	\$ (30,000.00)					\$ (30,000.00)	
Transit Facility - Fans in Bus Bays	\$ (40,000.00)					\$ (40,000.00)	
Transit Facility- Safety Improvements to Bus Wash Exit	\$ (20,000.00)					\$ (20,000.00)	
Public Works Center - Transit Office Remodel	\$ -					\$ -	\$ (100,000.00)
<b>Total</b>	<b>\$ (90,000.00)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (90,000.00)</b>	<b>\$ (100,000.00)</b>

**Fund Balance**      \$ 635,376.00    \$ 779,376.00    \$ 923,376.00    \$ 1,067,376.00    \$ 1,211,376.00

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Transit Facility - Boiler Piping Changes & Loop Pumps	2020	30,000
Transit Facility - Fans in Bus Bays	2020	40,000
Transit Facility- Safety Improvements to Bus Wash Exit	2020	20,000
<b>Subtotal</b>		<b>90,000</b>
<b>Total</b>		<b>90,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Public Works Center - Transit Office Remodel	100,000
<b>Subtotal</b>	<b>100,000</b>
<b>Total</b>	<b>100,000</b>

## Project: Transit Facility - Boiler Piping Changes & Loop Pumps

Department: COMMUNITY DEVELOPMENT - TRANSIT

Project Years: 2020 - 2020

### Project Description

Install boiler loop pumps at the Transit Facility.

### Project Justification

Installation of primary circulating pumps to distribute fluid throughout the building mechanical systems. Pumps were left out of the original design but are needed to ensure system effectiveness.

### Project Uses

	2020	2021	2022	2023	2024	Total
Boiler pumps	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

Pumps will be purchased and installed in spring of 2020.

## Project: Transit Facility - Fans in Bus Bays

Department: COMMUNITY DEVELOPMENT - TRANSIT

Project Years: 2020 - 2020

### Project Description

Install large overhead fans in the Transit Facility.

### Project Justification

Installation of large overhead fans to circulate air in the bus storage area of the Transit Facility. In the winter months, condensation on the overhead doors could lead to premature failure. Installation of fans will help to circulate air in the space to more evenly distribute the moisture during cold weather months.

### Project Uses

	2020	2021	2022	2023	2024	Total
Purchase and install fans	40,000	0	0	0	0	40,000
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	40,000	0	0	0	0	40,000
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

Fans would be purchased and installed in January 2020.



## Project: Transit Facility- Safety Improvements to Bus Wash Exit

Department: COMMUNITY DEVELOPMENT - TRANSIT

Project Years: 2020 - 2020

### Project Description

Installation of a heating source for the Bus Wash Exit.

### Project Justification

During the winter months, the bus wash exit becomes very icy to the point of being unsafe at which time has to close. Installation of an underground heating source in the concrete apron will allow the automatic wash to remain open during the season to ensure buses remain clean and last longer.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bus Wash Safety Improvements	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Installation would occur in the summer of 2020.





# **WATER CAPITAL IMPROVEMENT FUND**



## Cash Flow

<u>Water Capital</u>		2020	2021	2022	2023	2024
Projected Fund Balance		\$ 116,047.00	\$ 202,047.00	\$ 307,797.00	\$ 714,770.00	
<u>Transfer-In</u>		\$ 400,000.00	\$ 500,000.00	\$ 400,000.00	\$ 400,000.00	
<u>Available Funds</u>		\$ 641,047.00	\$ 742,797.00	\$ 864,770.00	\$ 1,288,452.00	
Project Name	2020	2021	2022	2023	2024	Total
Nitrate Removal Pilot	\$ (20,000.00)					
Well 14 Upgrade and inspection	\$ (62,000.00)					
WHF PLC upgrade	\$ (63,000.00)					
Sludge Blow Down Piping		\$ (30,000.00)				
Security Camera Installation			\$ (30,000.00)			
WTP Master Plan				\$ (200,000.00)		\$ (200,000.00)
Softener #3 and #4 Rehab						
Hazelton Pump #1	\$ (125,000.00)					\$ (125,000.00)
Well 17 installation (Over 2 years)						
Skyline Booster installation and Tower installation						
North City Booster Installation						
Balcerzak Tower Replacement						
Hazelton Pump #2						
<b>Total</b>	<b>\$ (270,000.00)</b>	<b>\$ (30,000.00)</b>	<b>\$ (30,000.00)</b>	<b>\$ (30,000.00)</b>	<b>\$ (200,000.00)</b>	<b>\$ (325,000.00)</b>
Fund Balance	202,047	307,797	714,770	1,133,452		

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Nitrate Removal Pilot	2020	20,000
Waste Handling Facility Hazelton Pump #1 Rehab	2020	125,000
Well 14 Rehab	2020	62,000
WTP PLC upgrade	2020	63,000
<b>Subtotal</b>		<b>270,000</b>
<b>Total</b>		<b>270,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Sludge Blow Down Piping Replacement	2021	30,000
<b>Subtotal</b>		<b>30,000</b>
<b>Total</b>		<b>30,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Security camera installation	2022	30,000
<b>Subtotal</b>		<b>30,000</b>
<b>Total</b>		<b>30,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
WTP Master Plan	2023	200,000
<b>Subtotal</b>		<b>200,000</b>
<b>Total</b>		<b>200,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Balcerzak Tower Replacement	4,300,000
North City Booster Installation	1,000,000
Skyline Booster Installation and Tower Installation	2,600,000
Softener 3 and 4 Rehab	130,000
Well 17 Installation	2,500,000
<b>Subtotal</b>	<b>10,530,000</b>
<b>Total</b>	<b>10,530,000</b>

## Project: Nitrate Removal Pilot

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Nitrate removal Pilot. The pilot is looking to see if a new technology would be able to biologically remove nitrate from Mankato's source water. The six week pilot will outline the % removal of nitrates.

If the pilot is successful it will allow Mankato to decrease the dependency upon the deep wells and lean more heavily on the renewable source of the river barring any other contaminants or treatment deficiencies.

A grant was secured from MDH's source water protection competitive grants section. This is a \$10,000 matching funds grant. This money needs to be spent by April 31st 2021. There is also outside sources that have pledged money to support the pilot.

### Project Justification

This is an expansion of the water feasibility study completed in December 2017. We are looking for cost effective and operations friendly measures to remove nitrates in the drinking water. If the pilot works it will be a sustainable way to remove nitrates. The manufacture boasts low waste and low operating costs.

### Project Uses

	2020	2021	2022	2023	2024	Total
	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Water Capital	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Spring 2020 the pilot will begin. It is a six week pilot program. After wrap up there will be a report completed.



## Project: Waste Handling Facility Hazelton Pump #1 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Inspection and rehab of #1 Hazelton lime press pump. Replacement of seals, wear ring, cast iron pedestal, impeller, pump casing, and gaskets. This will be the first overhaul since 1999.

Priority - High

### Project Justification

The Hazelton pumps feed lime slurry to the dewatering presses for roughly 6 hours a day. If one were to fail we would lose 50% of our dewatering capacity. During high flow months we would not be able to keep up with lime waste production. The pumps have not been rehabbed in since installation in 1999. The seals on both pumps are leaking. If we are completing a seal repair it would be more feasible to replace the other items in need of attention the same time the seals are replaced. The seal itself cost \$7,000 without labor.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sewer Utility	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

Spring of 2021

## Project: Well 14 Rehab

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

## Project Description

Upgrade motor and install a VFD.

## Project Justification

The inspection and rehab the pump, motor, casing, and bearings based off the preventative maintenance rotation. If the integrity of the well casing, shaft and bowls are not verified, future cost will greatly increase. This work will be done out of the operating budget. The VFD upgrade is part of the CIP. I suggest to upgrade to a high efficiency motor as well as install a VFD to meet the city's demand. We maintain a 60-40 blend and have a difficult time maintaining that with the current well setup. The ability to control the blending ratio will allow the facility to optimize chemical usage.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Well rehab and upgrade	62,000	0	0	0	0	62,000
<b>Total</b>	<b>62,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>62,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Revolving Fund	62,000	0	0	0	0	62,000
<b>Total</b>	<b>62,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>62,000</b>

## Project Timeline

Spring of 2020. Upgrade will have to be completed outside the typical high demand season.

## Project: WTP PLC upgrade

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Upgrading current/outdated Programming Logic Controllers (PLC). This project would entail purchasing new equipment, install the current program, and install into the new cabinets.

### Project Justification

PLC Upgrade-The current PLC's are outdated. Our programmer and their suppliers do not stock our current PLC cards. They have been discontinued. If one were to fail our only option for replacement would be upgrade or searching E-Bay for a replacement. This upgrade was suggested by IN-Control while they were programming our current system. PLC cards become obsolete quickly and are not able to be refurbished. If a card were to fail that particular portion of the process would be run in manual until a replacement is found. If no replacement is found an emergency upgrade would be needed. In 2012 there was an analysis of all PLC cards on hand and recommended spares needed. I have a quote to upgrade the PLC's from 2012 with a total of \$171,276. It is suggested to do the PLC upgrade in two phases. Phase 1 would be in 2020 with upgrading from GE Fanuc to Rockwell. The \$150,000 would cover the hardware and programming costs. Phase 2 would be to complete the PLC2 with another \$125,000. Between the phase 1 and 2 we would get an accurate cost estimate to upgrade the remote sites as well as spare parts for the Membrane PLC system.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
PLC upgrade to most recent technology	63,000	0	0	0	0	63,000
<b>Total</b>	<b>63,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Revolving Fund	63,000	0	0	0	0	63,000
<b>Total</b>	<b>63,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63,000</b>

## Project Timeline

Summer of 2020. This will be an extended project possibly spanning 3 months.

## Project: Sludge Blow Down Piping Replacement

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of the core blow and lime feed piping. During a fitting replacement it was noticed that there was excessive corrosion inside the piping. The bottom 1/2 of the pipe is corroded and the coating has been degraded. All piping is 4" piping and above all other piping and conduit. This is 25' in the air and will be a tough project to complete. The piping leads from the basement pumps and to the third floor presses.

### Project Justification

We replaced one fitting due to corrosion and will be having to chase it throughout the system unless it is replaced.

### Project Uses

	2020	2021	2022	2023	2024	Total
30000	0	30,000	0	0	0	30,000
<b>Total</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Water Capital	0	30,000	0	0	0	30,000
<b>Total</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

Spring of 2021

## Project: Security camera installation

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

## Project Description

Installation of security cameras at all water storage facilities.

## Project Justification

The integrity of the water system is our number one priority. There is currently no system in place to monitor the happenings of the remote sites after hours. There is a security system in place where if a person were to enter the structure an alarm will sound, but there is nothing monitoring the exteriors of the sites. We have had two intrusions where a security monitor would have given a clear picture as to what had happened. If we could get a visual as to what happened it could save the city millions of gallons or thousands of dollars in lime. We cannot take a chance that an individual opened a hatch and did not contaminate the system. We would have to notify the public, drain the reservoir, and possibly notify the public.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Installation of security system	0	0	30,000	0	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Revolving Fund	0	0	30,000	0	0	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

## Project Timeline

Summer of 2020 based on the contractor's schedule

## Project: WTP Master Plan

Department: WATER CAPITAL IMPROVEMENT FUND

Project Years: 2023 - 2023

### Project Description

Facility plan to lay out the direction of the Water treatment Plant for treatment of the city's water

### Project Justification

As the City of Mankato continues to experience unparalleled growth, this growth continues to create more stress on the water infrastructure. The stress is seen in a number of areas throughout the water cycle from raw water supply, treatment, pumping capacities, and water distribution and storage. With a historical peak day demand of 9.7 million gallons per day a few years ago, the continued large scale growth of the City will significantly drive that peak up during dry times of the year. Rather than waiting for a water emergency or a significant treatment problem, planning for the future is needed to keep Mankato in the growth mode and able to supply the water needs for the City over the next 10+ years.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Master Plan design	0	0	0	200,000	0	200,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>200,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Revolving Fund	0	0	0	200,000	0	200,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>200,000</b>

### Project Timeline

Spring of 2020 through 2021







# **WW COLLECTIONS CAPITAL IMPROVEMENT FUND**



## Cash Flow

<b>Wastewater Capital</b>									
Projected Fund Balance	\$	419,477.00	\$	479,477.00	\$	667,477.00	\$	751,477.00	
Transfer-In	\$	200,000	\$	200,000	\$	100,000	\$	100,000	
<b>Available Funds</b>	\$	619,477	\$	679,477	\$	767,477	\$	851,477	
<b>Project Name</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>Illustrative</b>	<b>Total</b>			
Pohl Creek (Tanager) liftstation upgrade	\$ (140,000.00)					\$ (140,000.00)			
Muffin Monster Grinder replacement			\$ (16,000.00)			\$ (16,000.00)			
Aeration DO probe replacement		\$ (12,000.00)				\$ (12,000.00)			
Muffin Monster Grinder replacement					\$ (18,000.00)	\$ (18,000.00)			
<b>Total</b>	<b>\$ (140,000.00)</b>	<b>\$ (12,000.00)</b>	<b>\$ (16,000.00)</b>	<b>\$</b>	<b>-</b>	<b>\$ (186,000.00)</b>			
Fund Balance	\$	479,477.00	\$	667,477.00	\$	751,477.00	\$	851,477.00	

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Pohl Creek (Tanager) liftstation upgrade	2020	140,000
<b>Subtotal</b>		<b>140,000</b>
<b>Total</b>		<b>140,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Aeration DO probe replacement	2021	12,000
<b>Subtotal</b>		<b>12,000</b>
<b>Total</b>		<b>12,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Muffin Monster Grinder replacement	2022	16,000
<b>Subtotal</b>		<b>16,000</b>
<b>Total</b>		<b>16,000</b>

## Project: Pohl Creek (Tanager) liftstation upgrade

Department: WW COLLECTIONS CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Utilizing an engineer and general contractor, select larger replacement pumps, new control panel, and increase the existing forcemain with larger forcemain.

### Project Justification

Pohl liftstation is located in a highly active area of Mankato for expansion, and with the recent addition of apartment complex's the existing station now has extended run times under normal flow conditions. This is compounded during rain events, as this area is prone to inflow and infiltration issues. This upgrade is needed to make sure the liftstation does not curb growth in this area of town. Cost estimate is based on engineer projections from the wastewater facility plan.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
full project cost	140,000	0	0	0	0	140,000
<b>Total</b>	<b>140,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sewer Utility	140,000	0	0	0	0	140,000
<b>Total</b>	<b>140,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140,000</b>

### Project Timeline

1st quarter 2020 - request bids, and design traffic flow changes, and notify effected residents.  
2nd quarter 2020 - award bids and begin construction. 3rd quarter 2020 - complete construction.

## Project: Aeration DO probe replacement

Department: WW COLLECTIONS CAPITAL IMPROVEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replace existing DO probes with new ones. - funding was \$12,000, but zeroed as the project was moved into general operating budget 6494512 with the understanding maintenance items will no longer be charged as CIP's.

### Project Justification

Our DO probes keep us notified of flows which could place our effluent out of compliance. In addition, they are being used as a control measure to increase electrical efficiency of our blowers. These probes were replaced in 2017 and have a four year life span.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replacement probes	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	0	12,000	0	0	0	12,000
<b>Total</b>	<b>0</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

1st quarter 2021 order probes. 2nd quarter have staff replace old probes with new.

## Project: Muffin Monster Grinder replacement

Department: WW COLLECTIONS CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2022

### Project Description

Order replacement grinder section of the muffin monster, remove worn grinder, install new grinder, and ship old grinder to manufacturer.

### Project Justification

The grinder portion of our Muffin Monster compacting system is a key component in breaking down debris which is removed by our barscreen. This is a bi-annual replacement, and we send the "core" back to the manufacture to help keep the cost down. Note: This will not be needed if 2020 Washer / compactor upgrade is performed.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Core replacement	0	0	16,000	0	0	16,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>16,000</b>	<b>0</b>	<b>0</b>	<b>16,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	0	0	16,000	0	0	16,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>16,000</b>	<b>0</b>	<b>0</b>	<b>16,000</b>

### Project Timeline

1st quarter 2022 order grinder component. 2nd quarter 2022 replace old parts with new.







# **WASTEWATER PLANT CAPITAL IMPROVEMENT FUND**



## Cash Flow

<u>Wastewater Plant Capital</u>					
Projected Fund Balance	\$ 1,873,015.00	\$ 1,839,515.00	\$ 3,367,836.83	\$ 3,896,538.06	
Transfer-In	\$ 2,100,000.00	\$ 2,100,000.00	\$ 1,105,000.00	\$ 824,440.00	
Available Funds	\$ 3,973,015.00	\$ 3,939,515.00	\$ 4,472,836.83	\$ 4,720,978.06	
Project Name	2020	2021	2022	2023	Total
2020 - Belt Filter Press Upgrade	\$ (80,500.00)				\$ (80,500.00)
2020 - Excel Feed line relocation	\$ (120,000.00)				\$ (120,000.00)
2022 - Waste Receiving station expansion			\$ (250,000.00)	\$ (250,000.00)	\$ (500,000.00)
2028 - Blower Replacement with turbo blowers	\$ (50,000.00)	\$ (100,000.00)	\$ (150,000.00)	\$ (200,000.00)	\$ (500,000.00)
Cash for master plan project coverage	\$ (1,883,000.00)	\$ (471,678.17)	\$ (176,298.78)	\$ (239,411.22)	\$ (3,173,888.16)
Total	\$ (2,133,500.00)	\$ (571,678.17)	\$ (576,298.78)	\$ (689,411.22)	\$ (4,374,388.16)
Fund Balance	\$ 1,839,515.00	\$ 3,367,836.83	\$ 3,896,538.06	\$ 4,031,566.84	

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
2028 - Blower Replacement with turbo blowers	2020	50,000
Belt Filter Press Upgrade	2020	80,500
Cash/ Bond for CIP Master Plan Coverage	2020	1,883,000
Excel Feed line relocation	2020	120,000
<b>Subtotal</b>		<b>2,133,500</b>
<b>Total</b>		<b>2,133,500</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
2028 - Blower Replacement with turbo blowers	2021	100,000
Cash/ Bond for CIP Master Plan Coverage	2021	471,678
<b>Subtotal</b>		<b>571,678</b>
<b>Total</b>		<b>571,678</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
2028 - Blower Replacement with turbo blowers	2022	150,000
Cash/ Bond for CIP Master Plan Coverage	2022	176,299
Waste Receiving station expansion	2022	250,000
<b>Subtotal</b>		<b>576,299</b>
<b>Total</b>		<b>576,299</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
2028 - Blower Replacement with turbo blowers	2023	200,000
Cash/ Bond for CIP Master Plan Coverage	2023	239,411
Waste Receiving station expansion	2023	250,000
<b>Subtotal</b>		<b>689,411</b>
<b>Total</b>		<b>689,411</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
2028 - Blower Replacement with turbo blowers	2024	300,000
Subtotal		300,000
Total		300,000

## Project: 2028 - Blower Replacement with turbo blowers

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2028

### Project Description

Current blowers would be replaced with high efficiency turbo blowers to reduce overall electrical costs, and be sized in preparation for biological nutrient removal in the future.

### Project Justification

Current blowers are highly inefficient, and current turbo blowers are around 6 years ROI. The current blowers will be reaching a point of necessary rebuild around 2025, (cost is spread over 2025 and 2026) thus true cost includes rebuild of existing blowers to extend life span. Capital in years prior to 2029 is being allocated to pay for blowers. If it was determined to change this to an ESCO based project, funds saved can be allocated to the initial startup of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Cash Reserve	50,000	100,000	150,000	200,000	300,000	800,000
<b>Total</b>	<b>50,000</b>	<b>100,000</b>	<b>150,000</b>	<b>200,000</b>	<b>300,000</b>	<b>800,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	50,000	100,000	150,000	200,000	300,000	800,000
<b>Total</b>	<b>50,000</b>	<b>100,000</b>	<b>150,000</b>	<b>200,000</b>	<b>300,000</b>	<b>800,000</b>

### Project Timeline

2025 - rebuild Blowers 1 and 2; 2026 - rebuild blowers 3 and 4; 2028 - engineering costs of design and selection of new blowers; 2029 - installation of new turbo blowers.

## Project: Belt Filter Press Upgrade

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace three rollers, belts, several bearings on press 1, and replace sensor equipment, wash box sprayers, box seals, and drive on both presses. In addition, the polymer system will be upgraded to accept liquid polymer or dry polymer. Press components would be ordered through Komline (sole supplier of parts for our presses), and installed in tandem with city staff. The polymer system would be purchased through bid process, and installed by third party. Finally, add level sensors to truck bay to reduce amount of staff time dedicated to monitoring press process.

### Project Justification

A recent emergency repair on press 2 illustrated the need for several components to be repaired on the press, and polymer market has become difficult for us to find bids for the size of dry polymer bags we utilize, reconfiguration of the polymer system will update electronics with new parts, and allow the system to be more versatile with the types of polymer we can purchase. 2020 is the most opportunist year so this can be completed prior to the disinfection and digestion upgrade starting major construction in 2021.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Belt filter press upgrade	80,500	0	0	0	0	80,500
<b>Total</b>	<b>80,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,500</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	80,500	0	0	0	0	80,500
<b>Total</b>	<b>80,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,500</b>

## Project Timeline

December 2019 - council approves budget

December 2019 - WRRF orders rollers from Komline to utilize 2019 pricing, and due to 6 week lead on parts.

January 2020 - design of polymer system completed, and bids procured, and system ordered.

February 2020 - press parts installed after winter haul complete

June 2020 - Polymer skid installed, and controls completed.



## Project: Cash/ Bond for CIP Master Plan Coverage

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2023

### Project Description

Reference supplement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Transfer	1,883,000	471,678	176,299	239,411	0	2,770,388
Total	1,883,000	471,678	176,299	239,411	0	2,770,388

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	1,883,000	471,678	176,299	239,411	0	2,770,388
Total	1,883,000	471,678	176,299	239,411	0	2,770,388

## Project: Excel Feed line relocation

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2020 - 2020

### Project Description

Relocation of main feed from overhead transmission line and secondary meter to underground feed and primary metering. Installation of underground feed and new meter would be completed first, followed by the removal of overhead transmission lines within the confines of the WRRF.

### Project Justification

Xcel's overhead line needs to be moved to reduce overall costs associated with the disinfection and digestion upgrade, as the overhead lines are in the way of proper installation of various buildings in scope. In addition, the overhead lines have been an issue historically with proper maintenance of the existing digesters. Scope of this work has already been discussed with Xcel, and a bid for work has been produced.

### Engagement Strategy

- ◆ City Website
- ◆ CIP open House

### Project Uses

	2020	2021	2022	2023	2024	Total
Contingency	5,085	0	0	0	0	5,085
Xcel - construction of underground	91,226	0	0	0	0	91,226
Xcel - Decommission of overhead lines	23,689	0	0	0	0	23,689
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

January 2020 - Agreement with Xcel signed; 2nd quarter 2020 - electrical work preformed.

## Project: Waste Receiving station expansion

Department: WASTEWATER PLANT CAPITAL IMPROVEMENT FUND

Project Years: 2022 - 2023

### Project Description

expand the current waste receiving at the facility, or build new receiving station along Sakatah Dr. The receiving station would be large enough to accommodate a vac truck, a 5000 gallon non-potable water tanker, and portable bathroom dumping. If located off-site, there would be a fence, cameras, and an automated billing system for tracking usage at the facility. The site would also be a back-up water fill location for contractors, and could have the automated billing system tied into the water as well.

### Project Justification

The focus would be to offload contractor traffic on the existing station, and accommodate requests from contractors for an after hours dump and fill location in the city. Our current receiving station has a line of vehicles most summer days, and we will be using the existing one heavily during the digester upgrade further compounding usage of the existing station. In addition, having a contractor focused station would help the facility better track loading from contractors, and have a better mechanism for billing for reuse / water and dumping fees.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
automated billing system	0	0	0	35,000	0	35,000
construction	0	0	35,000	35,000	0	70,000
contingency	0	0	0	35,000	0	35,000
controls and electrical	0	0	30,000	30,000	0	60,000
engineering	0	0	35,000	15,000	0	50,000
Materials	0	0	150,000	100,000	0	250,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>	<b>500,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	0	0	250,000	250,000	0	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>	<b>500,000</b>

## Project Timeline

Fall 2019 - design facility as part of the final disinfection and digestion upgrade work.

Summer 2020 - Select site of new receiving station.

Spring 2022 - begin construction of new receiving pad.

Summer 2023 - complete construction of receiving pad.

Fall 2023 - begin automated billing process with contractors filling water and dumping waste at station.



# **SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS**



## Cash Flow

<u>Wastewater Plant Capital</u>					
	2020	2021	2022	2023	2024
2023 - Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)			\$2,000,000.00	\$2,755,555.00	
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	\$125,000.00	\$100,000.00	\$521,767.00	\$879,782.00	\$2,094,489.00
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	\$75,000.00	\$103,500.00	\$679,472.00	\$702,902.00	\$328,021.00
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	\$125,000.00	\$100,000.00	\$1,821,202.00	\$2,400,072.00	\$1,668,991.00
Disinfection and Digestion Upgrade Packet 3 of 10 - Expansion of Existing Biosolids storage	\$300,000.00	\$1,905,163.00	\$437,921.00	\$0.00	\$0.00
Disinfection and Digestion Upgrade Packet 4 of 10 - Upgrade barscreen to improve removal of debris	\$250,000.00	\$925,556.00	\$925,556.00	\$0.00	\$0.00
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	\$850,000.00	\$100,000.00	\$2,566,849.00	\$6,999,692.00	\$3,112,316.00
Disinfection and Digestion Upgrade Packet 6 of 10 - Structural repairs to aeration basins 2 and 3	\$12,000.00	\$137,469.00	\$0.00	\$0.00	\$0.00
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	\$65,000.00	\$710,837.00	\$3,604,046.00	\$2,063,670.00	\$683,911.00
Disinfection and Digestion Upgrade Packet 8 of 10 - Digester 4 conversion to liquid storage	\$46,000.00	\$0.00	\$0.00	\$441,120.00	\$110,280.00
Disinfection and Digestion Upgrade Packet 9 of 10 - HVAC and Pump upgrades at Solids Processing Building	\$35,000.00	\$0.00	\$0.00	\$848,763.00	\$206,760.00
Amount Funded via PFA - D&D upgrade	\$0.00	\$3,610,846.83	\$10,380,514.22	\$14,096,589.78	\$8,067,748.37
Amount Funded via PFA - Regional collections			\$2,000,000.00	\$2,755,555.00	
Amount Covered via Bond / Cash	\$1,883,000.00	\$471,678.17	\$176,298.78	\$239,411.22	\$137,019.63
<b>Total of CIP costs</b>	<b>\$1,883,000.00</b>	<b>\$4,082,525.00</b>	<b>\$12,556,813.00</b>	<b>\$17,091,556.00</b>	<b>\$8,204,768.00</b>
					<b>\$44,222,162.00</b>

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	2020	125,000
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	2020	75,000
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	2020	125,000
Disinfection and Digestion Upgrade Packet 3 of 10 - Expansion of Existing Biosolids storage	2020	300,000
Disinfection and Digestion Upgrade Packet 4 of 10 - Upgrade barscreen to improve removal of debris	2020	250,000
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	2020	850,000
Disinfection and Digestion Upgrade Packet 6 of 10 - Structural repairs to aeration basins 2 and 3	2020	12,000
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	2020	65,000
Disinfection and Digestion Upgrade Packet 8 of 10 - Digester 4 conversion to liquid storage	2020	46,000
Disinfection and Digestion Upgrade Packet 9 of 10 - HVAC and Pump upgrades at Solids Processing Building	2020	35,000
<b>Subtotal</b>		<b>1,883,000</b>
<b>Total</b>		<b>1,883,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	2021	100,000
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	2021	103,500
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	2021	100,000
Disinfection and Digestion Upgrade Packet 3 of 10 - Expansion of Existing Biosolids storage	2021	1,905,163
Disinfection and Digestion Upgrade Packet 4 of 10 - Upgrade barscreen to improve removal of debris	2021	925,556
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	2021	100,000
Disinfection and Digestion Upgrade Packet 6 of 10 - Structural repairs to aeration basins 2 and 3	2021	137,469
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	2021	710,837
<b>Subtotal</b>		<b>4,082,525</b>
<b>Total</b>		<b>4,082,525</b>



## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
2023 - Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)	2022	2,000,000
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	2022	521,767
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	2022	679,472
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	2022	1,821,202
Disinfection and Digestion Upgrade Packet 3 of 10 - Expansion of Existing Biosolids storage	2022	437,921
Disinfection and Digestion Upgrade Packet 4 of 10 - Upgrade barscreen to improve removal of debris	2022	925,556
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	2022	2,566,849
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	2022	3,604,046
<b>Subtotal</b>		<b>12,556,813</b>
<b>Total</b>		<b>12,556,813</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
2023 - Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)	2023	2,755,555
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	2023	879,782
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	2023	702,902
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	2023	2,400,072
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	2023	6,999,692
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	2023	2,063,670
Disinfection and Digestion Upgrade Packet 8 of 10 - Digester 4 conversion to liquid storage	2023	441,120
Disinfection and Digestion Upgrade Packet 9 of 10 - HVAC and Pump upgrades at Solids Processing Building	2023	848,763
<b>Subtotal</b>		<b>17,091,556</b>
<b>Total</b>		<b>17,091,556</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation	2024	2,094,489
Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage	2024	328,021
Disinfection and Digestion Upgrade Packet 2 of 10 - Solids Thickening and Digester Control Building	2024	1,668,991
Disinfection and Digestion Upgrade Packet 5 of 10 - Replace original 1956 digesters	2024	3,112,316
Disinfection and Digestion Upgrade Packet 7 of 10 - Replace existing chlorine contact basin	2024	683,911
Disinfection and Digestion Upgrade Packet 8 of 10 - Digester 4 conversion to liquid storage	2024	110,280
Disinfection and Digestion Upgrade Packet 9 of 10 - HVAC and Pump upgrades at Solids Processing Building	2024	206,760
<b>Subtotal</b>		<b>8,204,768</b>
<b>Total</b>		<b>8,204,768</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
<b>Total</b>	

## **Project: Disinfection and Digestion Upgrade Packet 1 of 10 - Control Building Renovation**

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### **Project Description**

History - Control Building was built in 1975 as a 2 story kasota stone structure serving as the main operations staff area, lab space, lunch room, solids thickening (DAF), aeration blowers, 2 stall garage, maintenance shop, electrical room, and standby generator. The building was retro fitted in 2000 to have the aeration blowers replaced and relocated, maintenance shop and garage space moved to new building, expansion of operational office space, expansion of lab space, installation of conference room, addition of a public restroom, and electrical upgrades to our SCADA system.

Project plan - The DAF thickener and standby generator are being removed from the building due to treatment process reconfiguration with the digester upgrade. The areas these were located with be reconfigured into new lab space to accommodate Mankato's vision of a consolidate certified lab for all water analysis (water, stormwater, and wastewater). The 2nd floor will be retro-fitted with a larger lunchroom to accommodate current staff, staff work stations, ADA compliant elevator (no elevator currently exists), and public restrooms. The existing operational space will be reconfigured, locker rooms will be expanded to accommodate current staff, electrical and HVAC upgrades will occur for energy efficiency, record storage areas, conference room will be set-up to accommodate public meetings, and common areas will be redesigned to accommodate the general public better for tours and facility engagement.

### **Project Justification**

Current staff do not have enough space; some offices are in areas designated as hallways, proper record storage is lacking, locker rooms do not fit current staff, lunch room lacks proper size for number of on-site staff, HVAC system needs upgrades, electrical systems will be getting upgraded in the D and D upgrade, and building needs efficiency upgrades.

### **Engagement Strategy**

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Customer Community Meetings

## Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	0	307,950	513,250	1,231,800	2,053,000
Contingency	0	0	91,615	162,693	366,461	620,769
Engineering	125,000	100,000	54,969	91,615	219,876	591,460
General Requirements	0	0	27,716	46,193	110,862	184,771
Inflation	0	0	8,722	14,706	42,310	65,738
Site Work	0	0	30,795	51,325	123,180	205,300
<b>Total</b>	<b>125,000</b>	<b>100,000</b>	<b>521,767</b>	<b>879,782</b>	<b>2,094,489</b>	<b>3,721,038</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	0	513,045	865,076	2,052,179	3,430,300
Waste Water	125,000	100,000	8,722	14,706	42,310	290,738
<b>Total</b>	<b>125,000</b>	<b>100,000</b>	<b>521,767</b>	<b>879,782</b>	<b>2,094,489</b>	<b>3,721,038</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded

## Project: Disinfection and Digestion Upgrade Packet 10 of 10 - Digester Gas Storage

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

History - Biogas has been utilized at the facility since the 1956 start-up. Previously storage was via a tank mounted floating cover on a digester. In 1991, the facility transitioned to a membrane based gas storage (dystor), which has required replacement every 10 - 12 years. The last replacement had several cost over-runs due to unforeseen circumstances surrounding the fact the membrane was located on top an active digester.

Scope - A new ground mounted storage tank and gas treatment system will be installed and connected to the digesters to store excess gas, which will be used by boilers to decrease the need for utilizing natural gas at the facility.

### Project Justification

Gas storage is necessary to maximize the benefit of having anaerobic digesters, and therefore reduce utility bills. The decision to have the storage tank on the ground allows for the maximum storage capacity and true volume monitoring of gas on hand. In addition, the maintenance on the dome will be much lower due to being located on the ground.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	0	387,200	387,200	193,600	968,000
Contingency	0	0	115,192	115,192	57,596	287,980
Engineering	75,000	103,500	92,154	115,192	34,558	420,404
General Requirements	0	0	34,848	34,848	17,424	87,120
Inflation	0	0	11,358	11,750	5,483	28,591
Site Work	0	0	38,720	38,720	19,360	96,800
<b>Total</b>	<b>75,000</b>	<b>103,500</b>	<b>679,472</b>	<b>702,902</b>	<b>328,021</b>	<b>1,888,895</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	0	11,358	11,750	5,483	28,591
Waste Water	75,000	103,500	668,114	691,152	322,538	1,860,304
<b>Total</b>	<b>75,000</b>	<b>103,500</b>	<b>679,472</b>	<b>702,902</b>	<b>328,021</b>	<b>1,888,895</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded

## Project: Disinfection and Digestion Upgrade Packet 3 of 10 - Expansion of Existing Biosolids storage

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

History - Current biosolids storage bunker was built in 2000 with the outlook of 9 months of storage at 2020 flows would work for the facility. After several years of hauling biosolids to the Ponderosa landfill Mankato decided greater than 12 months of storage would better to remove the need to haul during the winter. The facility plan determined the size based on 2040 projections.

Scope - Construct new biosolids bunker to increase total storage between two bunkers to meet at least 12 months of storage at 2040 flow projections.

### Project Justification

Currently our biosolids bunker only holds 10 months of storage. Thus, we must haul biosolids in both fall and winter. We want to remove the winter haul, since this ties up snowplows to accomplish this task, and we receive the most complaints about the product applied to the fields in the winter time. Finally, as the facility expands our storage time will only decrease, thus the planned expansion would allow for the goal of 12 months of storage to be met well into 2040.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Contingencies	0	334,552	76,893	0	0	411,445
Engineering	300,000	200,731	46,136	0	0	546,867
Equipment and Materials	0	1,079,200	269,800	0	0	1,349,000
General Requirements	0	97,128	24,282	0	0	121,410
Inflation	0	31,672	7,320	0	0	38,992
Site Work	0	161,880	13,490	0	0	175,370
<b>Total</b>	<b>300,000</b>	<b>1,905,163</b>	<b>437,921</b>	<b>0</b>	<b>0</b>	<b>2,643,084</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	1,873,491	430,601	0	0	2,304,092
Waste Water	300,000	31,672	7,320	0	0	338,992
<b>Total</b>	<b>300,000</b>	<b>1,905,163</b>	<b>437,921</b>	<b>0</b>	<b>0</b>	<b>2,643,084</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded



## Project: Disinfection and Digestion Upgrade Packet 4 of 10 - Upgrade barscreen to improve removal of debris

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

Replace existing influent screens with new multirake 1/4 opening screenings, and replace existing grinder / compactor. The new screens would maintain the existing hydraulic capacity of 42 MGD.

### Project Justification

The main screen and rake are in need of replacing, and the current 1/2 clearing allows the passage of debris resulting in increased maintenance needs through the facility. In addition, the current screens negatively impacts the biosolids applied to farm fields by allowing debris to make it to the solids treatment process. In addition, spiral heat exchangers designated in the disinfection and digestion upgrade require fine debris removal than our current screen.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	558,500	558,500	0	0	1,117,000
Contingencies	0	162,338	162,338	0	0	324,676
Engineering	250,000	98,397	98,397	0	0	446,794
General Requirements	0	55,850	55,850	0	0	111,700
Inflation	0	15,471	15,471	0	0	30,942
Site work	0	35,000	35,000	0	0	70,000
<b>Total</b>	<b>250,000</b>	<b>925,556</b>	<b>925,556</b>	<b>0</b>	<b>0</b>	<b>2,101,112</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	910,085	910,085	0	0	1,820,170
Waste Water	250,000	15,471	15,471	0	0	280,942
<b>Total</b>	<b>250,000</b>	<b>925,556</b>	<b>925,556</b>	<b>0</b>	<b>0</b>	<b>2,101,112</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded

## Project: Disinfection and Digestion Upgrade Packet 6 of 10 - Structural repairs to aeration basins 2 and 3

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

Remove existing walkways that are deteriorating, and repair or brace walls to extend life of the structure. Replace one walkway on each basin with one pre-manufactured walkway.

### Project Justification

Walkways were installed in 1975, and the concrete is beginning to deteriorate. In addition, one of the walls bowed during the 2000 facility upgrade, and the stress is causing the concrete to show signs of stress.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	80,000	0	0	0	80,000
Contingency	0	23,125	0	0	0	23,125
Engineering	12,000	19,546	0	0	0	31,546
General Requirements	0	5,000	0	0	0	5,000
Inflation	0	2,298	0	0	0	2,298
Site Work	0	7,500	0	0	0	7,500
<b>Total</b>	<b>12,000</b>	<b>137,469</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>149,469</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	135,171	0	0	0	135,171
Waste Water	12,000	2,298	0	0	0	14,298
<b>Total</b>	<b>12,000</b>	<b>137,469</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>149,469</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded

## Project: Disinfection and Digestion Upgrade Packet 8 of 10 - Digester 4 conversion to liquid storage

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

History - Digester was constructed in 2000, and has functioned as a primary digester. The digester has experienced mixing issues, and the exterior brickwork needs to be repaired.

Scope - Digester is to be retrofitted to be used as a storage tank with a HVAC system to remove odors from the area. The conversion will increase the liquid storage onsite allowing for reduced need for operating the belt filter press on weekends.

### Project Justification

Facility plan indicated the tank needs repairs, but overall the tank still has plenty of life left. Re-utilization will be a cheaper option for meeting operational needs for digestion than installing a new 4th digester during the disinfection and digestion upgrade.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	0	0	256,000	64,000	320,000
Contingency	0	0	0	76,160	19,040	95,200
Engineering	46,000	0	0	52,946	13,237	112,183
General Requirements	0	0	0	23,040	5,760	28,800
Inflation	0	0	0	7,374	1,843	9,217
Site Work	0	0	0	25,600	6,400	32,000
<b>Total</b>	<b>46,000</b>	<b>0</b>	<b>0</b>	<b>441,120</b>	<b>110,280</b>	<b>597,400</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	0	0	7,374	1,843	9,217
Waste Water	46,000	0	0	433,746	108,437	588,183
<b>Total</b>	<b>46,000</b>	<b>0</b>	<b>0</b>	<b>441,120</b>	<b>110,280</b>	<b>597,400</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded

## Project: Disinfection and Digestion Upgrade Packet 9 of 10 - HVAC and Pump upgrades at Solids Processing Building

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2020 - 2024

### Project Description

History - The solids processing was constructed in 2000 to serve as the final processing step in our digestion train. The structure is a two story building housing the filter press, polymer system, several chemical tanks, boilers, HVAC equipment, and gas compression system.

Scope - The existing heat pumps, boilers, and gas compressors will not mesh with the planned operations of the new digesters, and they have reach the end of their first lifecycle. The gas compressors will be removed, and the space re purposed for odor control. The boilers will be removed and replaced with high efficiency boilers, and the pumps will be converted from re-circulation pumps to positive displacement press feed pumps.

### Project Justification

Existing equipment has reached the end of their life, and even if repaired will not mesh with the needs of the new digester operations.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction and Materials	0	0	0	524,000	131,000	655,000
Contingency	0	0	0	146,540	35,698	182,238
Engineering	35,000	0	0	101,875	24,817	161,692
General Requirements	0	0	0	47,160	11,790	58,950
Inflation	0	0	0	14,188	3,455	17,643
Site Work	0	0	0	15,000	0	15,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>848,763</b>	<b>206,760</b>	<b>1,090,523</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
PFA	0	0	0	834,575	203,304	1,037,879
Waste Water	35,000	0	0	14,188	3,456	52,644
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>848,763</b>	<b>206,760</b>	<b>1,090,523</b>

## Project Timeline

Summer 2020 - Final engineering report for project completed.

Spring 2021 - PFA project funding submitted to MPCA.

Summer 2021 - PFA award notification

Fall 2021 - Project out for bids

Winter 2021 - Bid accepted by Mankato

Spring 2022 - Construction begins

Fall 2024 - Project Concluded



## Project: 2023 - Upgrade regional trunk line - Thompson Ravine to WRRF (customer community line)

Department: SUPPLEMENTAL WW PLANT MASTER PLAN PROJECTS

Project Years: 2022 - 2023

### Project Description

Increase the overall size of the interceptor pipe running from Thompson Ravine to Pine street where it enters the WRRF.

### Project Justification

During the SEH collection study, and the Bolton and Menk / Black and Veatch facility plan, the collection interception entering the WRRF from the east to Thompson Ravine was determined to be a flow bottle neck during high flows. This has the potential cause back-ups of the sanitary system more often than other areas of the city, and have the potential to hinder growth the of the city, as normal usage over the system is over loading sections of the interceptor.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
construction	0	0	750,000	1,150,000	0	1,900,000
contingency	0	0	200,000	155,555	0	355,555
engineering	0	0	300,000	200,000	0	500,000
Materials	0	0	750,000	1,250,000	0	2,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>2,755,555</b>	<b>0</b>	<b>4,755,555</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Waste Water	0	0	2,000,000	2,755,555	0	4,755,555
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>2,755,555</b>	<b>0</b>	<b>4,755,555</b>

## Project Timeline

Fall 2021 review the plan with engineering. Spring 2022 procure bids for construction, Summer and fall 2022 perform construction of the sanitary interceptor.



# STORMWATER CAPITAL FUND



## Cash Flow

<u>Storm Water</u>		2020	2021	2022	2023	2024
Projected Fund Balance		\$1,500,000	\$ 1,133,862	\$ 1,066,994	\$ 937,214	\$749,227
<u>Transfer-In</u>		\$800,000	\$850,000	\$750,000	\$750,000	\$750,000
<u>Available Funds</u>		2,300,000	1,983,862	1,816,994	1,687,214	1,499,227
Project Name	2020	2021	2022	2023	2024	
Lake Street Pump Station	\$ (339,800.00)					
Private Property BMPs	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	
Street reconstruction projects	\$ (486,338.00)	\$ (444,168.00)	\$ (627,730.00)	\$ (537,987.00)	\$ (479,642.00)	
Warren Street Basin Expansion	\$ (240,000.00)					
Indian Creek Pump Station Facility & Electrical		\$ (253,800.00)				
Honeymead Pump Station Facility & Electrical		\$ (118,900.00)				
Mulberry Pumping Station Facility & Electrical					\$ (166,089.00)	
Warren Creek Facility & Electrical			\$ (152,050.00)			
Lake Dorothy Pump Station				\$ (300,000.00)		
	\$ (1,166,138.00)	\$ (916,868.00)	\$ (879,780.00)	\$ (937,987.00)	\$ (745,731.00)	
<u>Fund Balance</u>	\$	1,133,862	\$ 1,066,994	\$ 937,214	\$ 749,227	\$ 753,496

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
2019 Warren Street Basin Expansion	2020	240,000
Lake Street Pump Station	2020	339,800
Private Property BMPs	2020	100,000
Street Reconstruction Projects	2020	486,338
<b>Subtotal</b>		<b>1,166,138</b>
<b>Total</b>		<b>1,166,138</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Honeymead Pump Station Facility & Electrical	2021	118,900
Indian Creek Pump Station Facility & Electrical	2021	253,800
Private Property BMPs	2021	100,000
Street Reconstruction Projects	2021	444,168
<b>Subtotal</b>		<b>916,868</b>
<b>Total</b>		<b>916,868</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Private Property BMPs	2022	100,000
Street Reconstruction Projects	2022	627,730
Warren Creek Facility & Electrical	2022	152,050
<b>Subtotal</b>		<b>879,780</b>
<b>Total</b>		<b>879,780</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Lake Dorthy & Clover Leaf Pond	2023	300,000
Private Property BMPs	2023	100,000
Street Reconstruction Projects	2023	537,987
<b>Subtotal</b>		<b>937,987</b>
<b>Total</b>		<b>937,987</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Mulberry Pumping Station Facility & Electrical	2024	166,089
Private Property BMPs	2024	100,000
Street Reconstruction Projects	2024	479,642
<b>Subtotal</b>		<b>745,731</b>
<b>Total</b>		<b>745,731</b>

## Project: 2019 Warren Street Basin Expansion

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

### Project Description

This project increase the capacity and treatment of the Warren Street storm water basin through rerouting pipes and constructing a second basin. IN order to complete the project, land acquisition or an easement is required from Minnesota State University, Mankato.

### Project Justification

This basin no longer has the required level of service to meet the needs of the watershed. The low level of service results in overtopping in lower intensity storms and increase the chance of failure of the embankment.

### Engagement Strategy

An informational meeting will be held with the property owners prior to the feasibility hearing.

#### City

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

#### Community

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other



## Project Uses

	2020	2021	2022	2023	2024	Total
Stormwater	240,000	0	0	0	0	240,000
<b>Total</b>	<b>240,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	240,000	0	0	0	0	240,000
<b>Total</b>	<b>240,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

## Project Timeline

January - Feasibility Hearing

March - Bid

May - Start of construction

October - Project Completion

## Project: Lake Street Pump Station

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2020

### Project Description

Lake Street Pump Station is located northeast of the Lake Street and Webster Avenue Intersection.

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Pump Station Improvements	339,800	0	0	0	0	339,800
<b>Total</b>	<b>339,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>339,800</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	339,800	0	0	0	0	339,800
<b>Total</b>	<b>339,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>339,800</b>

### Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.

## Project: Private Property BMPs

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2024

### Project Description

As a part of the Surface Water Management Policy, a cost sharing program for property owners has been established. This program provides a public contribution to private improvements that are on surface water conveyances that carry public water.

### Project Justification

In order to promote improvements along surface waters a cost sharing program was established as a part of the Surface Water Management Policy. By promoting private investment along surface waters conveying public drainage property owner will be able to achieve the desired level of service of an improvement should for private property.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
BMPs	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Project Timeline

The timeline is developed for individual projects as they are submitted.

## Project: Street Reconstruction Projects

Department: STORMWATER CAPITAL FUND

Project Years: 2020 - 2024

### Project Description

Each year, the City of Mankato performs reconstruction and resurfacing projects identified in the Community Investment Plan. While each project has a different mix of funding sources, the costs associated with storm drainage improvements have generally been funded through the storm water utility fund. These costs represent the total storm drainage costs for all of the 2020-2024 Surface Transportation Community Investment Plan.

### Project Justification

The stormwater utility fund the replacement, improvements and repair of the stormwater drainage system in the City of Mankato. This line item accounts for all of the drainage work that is funding by the utility in the annual Surface Transportation Community Investment Plan and related activities.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	486,338	444,168	627,730	537,987	479,642	2,575,865
<b>Total</b>	<b>486,338</b>	<b>444,168</b>	<b>627,730</b>	<b>537,987</b>	<b>479,642</b>	<b>2,575,865</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	486,338	444,168	627,730	537,987	479,642	2,575,865
<b>Total</b>	<b>486,338</b>	<b>444,168</b>	<b>627,730</b>	<b>537,987</b>	<b>479,642</b>	<b>2,575,865</b>

### Project Timeline

This is a budgetary line item that does not have a specific project process.

## Project: Honeymead Pump Station Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2021 - 2021

### Project Description

Honeymead Pump Station is located adjacent to Sibley Park, at the intersection of Spence Street and West 3rd Street. It is part of the USACE Stage 2 drainage area, which is approximately 293 acres in size, and includes the area tributary to three storm water pump stations, including the Le Hillier East pump station and the Le Hillier West pump station. Of the three, only the Honeymead pump station is located within the City of Mankato. The Honeymead pump station has three vertical turbine pumps, with a design capacity of 52,400 gallons per minute (gpm).

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Pump station updates	0	118,900	0	0	0	118,900
<b>Total</b>	<b>0</b>	<b>118,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118,900</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	0	118,900	0	0	0	118,900
<b>Total</b>	<b>0</b>	<b>118,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118,900</b>

## Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.

## Project: Indian Creek Pump Station Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2021 - 2021

### Project Description

Indian Creek Pump Station is located northeast of the Sibley Parkway and Poplar Street Intersection. The total drainage area for the Indian Creek pump station is approximately 5,720 acres, however, during blocked flow conditions, approximately 3,800 acres of the watershed is diverted to the Blue Earth River. The Indian Creek pump station has four vertical turbine pumps, with a design capacity of 136,000 gpm

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Pump Station Improvements	0	253,800	0	0	0	253,800
<b>Total</b>	<b>0</b>	<b>253,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>253,800</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	0	253,800	0	0	0	253,800
<b>Total</b>	<b>0</b>	<b>253,800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>253,800</b>

## Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.



## Project: Warren Creek Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2022 - 2022

### Project Description

Warren Creek Pump Station is located at the intersection of Minnesota Street and A Street. The contributing drainage area to the Warren Creek pump station is approximately 1,644 acres. The Warren Street pump station has four vertical turbine pumps, with a design capacity of 195,000 gpm.

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	0	0	152,050	0	0	152,050
<b>Total</b>	<b>0</b>	<b>0</b>	<b>152,050</b>	<b>0</b>	<b>0</b>	<b>152,050</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	0	0	152,050	0	0	152,050
<b>Total</b>	<b>0</b>	<b>0</b>	<b>152,050</b>	<b>0</b>	<b>0</b>	<b>152,050</b>

### Project Timeline

January - Feasibility; March - Bid; May - Construction; October - Project completion

## Project: Lake Dorthy & Clover Leaf Pond

Department: STORMWATER CAPITAL FUND

Project Years: 2023 - 2023

### Project Description

Sediment removal, outlet maintenance and shore restoration for Lake Dorthy and Clover Leaf Pond.

### Project Justification

Both ponds have reach the end of their service life and need major cleaning and restoration. Outlet modifications will be made to bring the pond into compliance with current pollution control and discharge standards.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	0	0	0	300,000	0	300,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>	<b>0</b>	<b>300,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	0	0	0	300,000	0	300,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>	<b>0</b>	<b>300,000</b>

### Project Timeline

January - Feasibility; February - Hearing; March - Bid; May - Construction; October - Project completion

## Project: Mulberry Pumping Station Facility & Electrical

Department: STORMWATER CAPITAL FUND

Project Years: 2024 - 2024

### Project Description

Mulberry Pump Station is located north of the Mulberry Street bridge.

### Project Justification

Several deficiencies were noted in the station. These included structural deterioration in the building components and electrical issues that need to be addressed to ensure the reliability of the station. The detail of the deterioration and reliability issues are noted in the 2017 Flood Risk Reduction System Pump Station Modernization Study performed by SEH. This project is being proposed to be done as a Section 208 project with the US Army Corps of engineering. This may allow for additional outside funding from the Corps, but the amount will not be determined until the Section 208 application is submitted 18 months before the start of the project.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)
- ◆ Other

### Project Uses

	2020	2021	2022	2023	2024	Total
Pump Station Improvements	0	0	0	0	166,089	166,089
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>166,089</b>	<b>166,089</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Stormwater Utility	0	0	0	0	166,089	166,089
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>166,089</b>	<b>166,089</b>

### Project Timeline

This project will be design the year prior to construction and submitted to COE for approval for construction in the project year.





# INFO TECH CAPITAL REPLACEMENT



## Cash Flow

### Information Technology

	2020	2021	2022	2023	2024
Projected fund balance	\$ 299,591.00	\$ 287,591.00	\$ 397,591.00	\$ 587,591.00	\$ 812,591.00
Info Tech Capital Replacement Transfer	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00
Cell Tower Rent	\$ 240,000.00	\$ 240,000.00	\$ 240,000.00	\$ 240,000.00	\$ 240,000.00
<b>Available Funds</b>	<b>\$ 789,591.00</b>	<b>\$ 777,591.00</b>	<b>\$ 887,591.00</b>	<b>\$ 1,077,591.00</b>	<b>\$ 1,302,591.00</b>

Project Name	2020	2021	2022	2023	2024	Total
Intranet project						\$ (20,000.00)
Security access control system upgrades and expansion	\$ (15,000.00)	\$ (15,000.00)	\$ (15,000.00)	\$ (15,000.00)	\$ (15,000.00)	\$ (75,000.00)
Fiber communications infrastructure expansion and maintenance	\$ (100,000.00)	\$ (75,000.00)	\$ (75,000.00)	\$ (75,000.00)	\$ (75,000.00)	\$ (375,000.00)
Video storage solution	\$ (85,000.00)	\$ (50,000.00)	\$ (25,000.00)	\$ (50,000.00)	\$ (25,000.00)	\$ (295,000.00)
Security camera system upgrades and expansion	\$ (115,000.00)	\$ (95,000.00)	\$ (75,000.00)	\$ (75,000.00)	\$ (75,000.00)	\$ (425,000.00)
User Data File Storage			\$ (40,000.00)			\$ (40,000.00)
Wireless Network Upgrades	\$ (15,000.00)					\$ (15,000.00)
Server Virtualization Upgrades	\$ (70,000.00)	\$ (15,000.00)	\$ (45,000.00)	\$ (25,000.00)	\$ (45,000.00)	\$ (155,000.00)
Network Equipment Upgrades	\$ (35,000.00)	\$ (15,000.00)				\$ (50,000.00)
Information Technology Security	\$ (40,000.00)	\$ (40,000.00)				\$ (80,000.00)
GIS Plotter	\$ (12,000.00)					\$ (12,000.00)
Conference Room(s) Technology	\$ (15,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (90,000.00)
VoIP Phone System Upgrade		\$ (50,000.00)				\$ (50,000.00)
<b>Total</b>	<b>\$ (502,000.00)</b>	<b>\$ (380,000.00)</b>	<b>\$ (300,000.00)</b>	<b>\$ (265,000.00)</b>	<b>\$ (260,000.00)</b>	<b>\$ (1,682,000.00)</b>

Fund Balance	\$ 287,591.00	\$ 397,591.00	\$ 587,591.00	\$ 812,591.00	\$ 1,042,591.00
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## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Conference Room(s) Technology	2020	15,000
Fiber Communications Infrastructure Expansion and Maintenance	2020	100,000
GIS Plotter / Scanner	2020	12,000
Information Technology Security	2020	40,000
Network Equipment Upgrades	2020	35,000
Security Access Control System Upgrades and Expansion	2020	15,000
Security Camera System Upgrades and Expansion	2020	115,000
Server Virtualization Upgrades	2020	70,000
Video Storage Solution	2020	85,000
Wireless Network Upgrades	2020	15,000
<b>Subtotal</b>		<b>502,000</b>
<b>Total</b>		<b>502,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
City VoIP Phone System Upgrade	2021	50,000
Conference Room(s) Technology	2021	25,000
Fiber Communications Infrastructure Expansion and Maintenance	2021	75,000
Information Technology Security	2021	40,000
Network Equipment Upgrades	2021	15,000
Security Access Control System Upgrades and Expansion	2021	15,000
Security Camera System Upgrades and Expansion	2021	95,000
Server Virtualization Upgrades	2021	15,000
Video Storage Solution	2021	50,000
<b>Subtotal</b>		<b>380,000</b>
<b>Total</b>		<b>380,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Conference Room(s) Technology	2022	25,000
Fiber Communications Infrastructure Expansion and Maintenance	2022	75,000
Security Access Control System Upgrades and Expansion	2022	15,000
Security Camera System Upgrades and Expansion	2022	75,000
Server Virtualization Upgrades	2022	45,000
User Data File Storage	2022	40,000
Video Storage Solution	2022	25,000
<b>Subtotal</b>		<b>300,000</b>
<b>Total</b>		<b>300,000</b>



## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Conference Room(s) Technology	2023	25,000
Fiber Communications Infrastructure Expansion and Maintenance	2023	75,000
Security Access Control System Upgrades and Expansion	2023	15,000
Security Camera System Upgrades and Expansion	2023	75,000
Server Virtualization Upgrades	2023	25,000
Video Storage Solution	2023	50,000
<b>Subtotal</b>		<b>265,000</b>
<b>Total</b>		<b>265,000</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Conference Room(s) Technology	2024	25,000
Fiber Communications Infrastructure Expansion and Maintenance	2024	75,000
Security Access Control System Upgrades and Expansion	2024	15,000
Security Camera System Upgrades and Expansion	2024	75,000
Server Virtualization Upgrades	2024	45,000
Video Storage Solution	2024	25,000
<b>Subtotal</b>		<b>260,000</b>
<b>Total</b>		<b>260,000</b>

## Project: Conference Room(s) Technology

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Conference Room(s) Technology Upgrades.

### Project Justification

Refresh aging technology in our meeting spaces to ensure our staff have modern technology tools and solutions.

### Project Uses

	2020	2021	2022	2023	2024	Total
	15,000	25,000	25,000	25,000	25,000	115,000
<b>Total</b>	<b>15,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>115,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	15,000	25,000	25,000	25,000	25,000	115,000
<b>Total</b>	<b>15,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>115,000</b>

### Project Timeline

Project will be on-going over next 1-5 years.

## Project: Fiber Communications Infrastructure Expansion and Maintenance

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Expand and maintain the city's fiber communication infrastructure to key city facilities. Identified facilities include; Parks, Water Utility Sites, Traffic Signals, Lighting System. As the city's fiber footprint continues to expand, portions of these funds need to be allocated for relocation and maintenance to the existing fiber communication infrastructure.

### Project Justification

By investing in high speed communication infrastructure, the network foundation is created for the City to facilitate the deployment of enterprise level technology systems (VoIP, Security Access, Security Cameras, etc.) across the City's network. The fiber infrastructure also interconnects other critical systems; Traffic Signals and Lighting System.

### Project Uses

	2020	2021	2022	2023	2024	Total
Fiber Infrastructure and Maintenance	100,000	75,000	75,000	75,000	75,000	400,000
<b>Total</b>	<b>100,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>400,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	100,000	75,000	75,000	75,000	75,000	400,000
<b>Total</b>	<b>100,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>400,000</b>

### Project Timeline

This is an ongoing annual project

## Project: GIS Plotter / Scanner

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2020

## Project Description

Replace the GIS plotter with a combination plotter / large plan scanner.

## Project Justification

The current GIS plotter is over 10years old and is starting to lack in performance and reliability.

## Project Uses

	2020	2021	2022	2023	2024	Total
Plotter / Scanner	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

## Project Timeline

1st quarter 2020

## Project: Information Technology Security

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2021

### Project Description

Upgrade our Network Firewall(s) and implement additional cybersecurity management solutions to enhance our threat defense systems.

### Project Justification

Information Technology Security (IT Security) is growing in importance due to reliance on computer systems, the Internet, wireless networks, and mobile devices. Over the next 2-3 years IT will be placing a high priority on the defense systems we have and place and upgrading them to the latest technology, implementing cybersecurity software to ensure our systems and data are secure.

### Project Uses

	2020	2021	2022	2023	2024	Total
Information Technology Security	40,000	40,000	0	0	0	80,000
<b>Total</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	40,000	40,000	0	0	0	80,000
<b>Total</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Project Timeline

Additional Information Technology Security solutions will be implemented over the next 2-3 years. Major firewall upgrades will start first quarter 2020 and carry over in 2021. Staff training will be another important component with the project to ensure staff leverage the software and monitoring features.

## Project: Network Equipment Upgrades

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2021

### Project Description

Network Equipment Upgrades.

### Project Justification

Replace aging network switches to increase network performance.

### Project Uses

	2020	2021	2022	2023	2024	Total
Network Equipment Upgrades	35,000	15,000	0	0	0	50,000
<b>Total</b>	<b>35,000</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	35,000	15,000	0	0	0	50,000
<b>Total</b>	<b>35,000</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

Phase one will occur 1st and 2nd quarters of 2020. Phase two is projected for 2021 1st quarter.

## Project: Security Access Control System Upgrades and Expansion

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Continue to expand and maintain the city's security access control system. Portions of these funds are to be allocated to maintenance and replacement of any failing access control components.

### Project Justification

Enterprise Security Access Control System is integrated in most city buildings on a single software platform. Provides the ability to configure employee access cards to specific doors in multiple buildings. This centralized system creates efficiencies for system management, alarming, and reporting features.

### Project Uses

	2020	2021	2022	2023	2024	Total
Fiber Infrastructure and Maintenance	15,000	15,000	15,000	15,000	15,000	75,000
<b>Total</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>75,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	15,000	15,000	15,000	15,000	15,000	75,000
<b>Total</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>75,000</b>

### Project Timeline

This is an ongoing annual project.

## Project: Security Camera System Upgrades and Expansion

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Continue to expand and maintain the city's video security camera system. Portions of these funds need to be allocated to replace aging analog cameras with High Definition (HD) cameras.

### Project Justification

Continue to expand and maintain the city's video security camera system. Portions of these funds need to be allocated to replace aging analog cameras with High Definition (HD) cameras.

### Project Uses

	2020	2021	2022	2023	2024	Total
Security Camera System Upgrades and Replacements	115,000	95,000	75,000	75,000	75,000	435,000
<b>Total</b>	<b>115,000</b>	<b>95,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>435,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	115,000	95,000	75,000	75,000	75,000	435,000
<b>Total</b>	<b>115,000</b>	<b>95,000</b>	<b>75,000</b>	<b>75,000</b>	<b>75,000</b>	<b>435,000</b>

### Project Timeline

This is an ongoing annual project.



## Project: Server Virtualization Upgrades

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Upgrade our server virtualization environment. Replacing Cisco chassis, server blades, fiber connects, and added memory for performance.

### Project Justification

Equipment is over 7 years old and by the end of 2021 the main chassis is no longer supported by Cisco. Upgraded equipment will provide more server capacity and increased performance for server scalability.

### Project Uses

	2020	2021	2022	2023	2024	Total
Server Virtualization Upgrades	70,000	15,000	45,000	25,000	45,000	200,000
<b>Total</b>	<b>70,000</b>	<b>15,000</b>	<b>45,000</b>	<b>25,000</b>	<b>45,000</b>	<b>200,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	70,000	15,000	45,000	25,000	45,000	200,000
<b>Total</b>	<b>70,000</b>	<b>15,000</b>	<b>45,000</b>	<b>25,000</b>	<b>45,000</b>	<b>200,000</b>

### Project Timeline

1st quarter 2021

## Project: Video Storage Solution

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2024

### Project Description

Continue to expand the unified video storage solution for the city's security video systems. Incorporating both the video security system and public safety squad car video system.

### Project Justification

This unified storage solution, provides the city will have a more agile, scalable, reliable, and cost effective solution for future video storage demands. Upgrading our security cameras to High Definition (HD) requires additional storage capacity. And looking into the future, public safety body cameras will eventually become a reality.

### Project Uses

	2020	2021	2022	2023	2024	Total
Video Storage Solution	85,000	50,000	25,000	50,000	25,000	235,000
<b>Total</b>	<b>85,000</b>	<b>50,000</b>	<b>25,000</b>	<b>50,000</b>	<b>25,000</b>	<b>235,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	85,000	50,000	25,000	50,000	25,000	235,000
<b>Total</b>	<b>85,000</b>	<b>50,000</b>	<b>25,000</b>	<b>50,000</b>	<b>25,000</b>	<b>235,000</b>

### Project Timeline

This is an ongoing annual project.

## Project: Wireless Network Upgrades

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2020 - 2020

### Project Description

Replace 18 Cisco wireless network access points in the City's core facilities.

### Project Justification

This wireless network is widely used by city staff to access software resources for daily operational business. This is not a public wireless network, city private network for city use only. The current wireless access points will not be supported with the latest software version being released.

### Project Uses

	2020	2021	2022	2023	2024	Total
Install new wireless access points	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Replace all wireless access points by 2nd quarter 2020.

## Project: City VoIP Phone System Upgrade

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2021 - 2021

### Project Description

Upgrade the VoIP Phone System. This upgrade will consist of upgrading the software to the latest version, replacing all staff desktop phones, and expanding our redundant backup phone system solutions at our disaster recovery site (Public Works Center).

### Project Justification

The current Cisco Call Manager software version we are on is no longer supported as of July 2022. The latest software Cisco software version will not support our current desktop phones. Current desktop phones were installed in 2007. We need to expanding our phone systems redundancy for the 311 call center and unity servers (voice mail).

### Project Uses

	2020	2021	2022	2023	2024	Total
Phone System Upgrade	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

Project is estimated to start 2nd quarter in 2020, and be completed 3rd quarter 2020.

## Project: User Data File Storage

Department: INFO TECH CAPITAL REPLACEMENT

Project Years: 2022 - 2022

## Project Description

Upgrade the user data file storage servers (U Drives).

## Project Justification

Aging file storage that will need to be replaced with new file storage technology.

## Project Uses

	2020	2021	2022	2023	2024	Total
User Data File Storage	0	0	40,000	0	0	40,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
IT Capital Replacement Fund	0	0	40,000	0	0	40,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

## Project Timeline

Second quarter 2022





# IGC CAPITAL REPLACEMENT FUND





## Cash Flow

IGC Replacement Fund		2020	2021	2022	2023	2024	
Projected fund balance		\$692,968	\$292,968	\$157,968	\$227,968	\$72,968	
Transfer-in IGC		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	
Available Funds		\$892,968	\$492,968	\$357,968	\$427,968	\$272,968	
Project Name	2020	2021	2022	2023	2024	Total	Illustrative
Intergovernmental Center - Council Chamber Repairs	\$ (30,000.00)					\$ (30,000.00)	
Intergovernmental Center - Hydraulics Engineering Study	\$ (30,000.00)					\$ (30,000.00)	
Intergovernmental Center - Building Exterior Cleaning & Repairs	\$ (30,000.00)	\$ (30,000.00)	\$ (30,000.00)		\$ (30,000.00)	\$ (150,000.00)	
Intergovernmental Center - Roof Replacement - Front Half	\$ (475,000.00)					\$ (475,000.00)	
Intergovernmental Center - Re-key Building	\$ (35,000.00)					\$ (35,000.00)	
Intergovernmental Center - Back Hallway		\$ (50,000.00)				\$ (50,000.00)	
Intergovernmental Center - Elevator Controls Upgrade		\$ (90,000.00)				\$ (90,000.00)	
Intergovernmental Center - Skylights		\$ (165,000.00)				\$ (165,000.00)	
Intergovernmental Center - Building Exterior EIFS Repairs & Painting			\$ (100,000.00)			\$ (100,000.00)	
Intergovernmental Center - Roof Top HVAC Units #1 & #2 Replacement				\$ (325,000.00)		\$ (325,000.00)	
Intergovernmental Center - Interior Lighting Upgrades						\$ -	\$ (265,000.00)
Intergovernmental Center - Carpet Replacement and Painting on the 2nd floor.						\$ -	\$ (520,000.00)
Intergovernmental Center - Elevator Car and Mechanical Equipment Replacement						\$ -	\$ (110,000.00)
<b>Total</b>	<b>\$ (600,000.00)</b>	<b>\$ (335,000.00)</b>	<b>\$ (130,000.00)</b>	<b>\$ (355,000.00)</b>	<b>\$ (30,000.00)</b>	<b>\$ (1,450,000.00)</b>	<b>\$ (895,000.00)</b>
Fund Balance	\$ 292,967.72	\$ 157,967.72	\$ 227,967.72	\$ 72,967.72	\$ 242,967.72		

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Intergovernmental Center Building Exterior Cleaning & Repairs	2020	30,000
Intergovernmental Center Hydronics Engineering Study	2020	30,000
Intergovernmental Center Re-key Building	2020	35,000
Intergovernmental Center Roof Replacement - Front Half	2020	475,000
Intergovernmental Council Chamber Repairs	2020	30,000
<b>Subtotal</b>		<b>600,000</b>
<b>Total</b>		<b>600,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Intergovernmental Center Back Hallway	2021	50,000
Intergovernmental Center Building Exterior Cleaning & Repairs	2021	30,000
Intergovernmental Center Elevator Controls Upgrade	2021	90,000
Intergovernmental Center Skylights	2021	165,000
<b>Subtotal</b>		<b>335,000</b>
<b>Total</b>		<b>335,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Intergovernmental Center Building Exterior Cleaning & Repairs	2022	30,000
Intergovernmental Center Exterior EFIS Repairs & Painting	2022	100,000
<b>Subtotal</b>		<b>130,000</b>
<b>Total</b>		<b>130,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Intergovernmental Center Building Exterior Cleaning & Repairs	2023	30,000
Intergovernmental Center Roof Top HVAC Units #1 & #2 Replacement	2023	325,000
<b>Subtotal</b>		<b>355,000</b>
<b>Total</b>		<b>355,000</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Intergovernmental Center Building Exterior Cleaning & Repairs	2024	30,000
<b>Subtotal</b>		<b>30,000</b>
<b>Total</b>		<b>30,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Intergovernmental Center - Interior Lighting Upgrades	265,000
Intergovernmental Center Carpet Replacement and Painting on the 2nd floor	520,000
Intergovernmental Center Elevator Car and Mechanical Equipment Replacement	110,000
<b>Subtotal</b>	<b>895,000</b>
<b>Total</b>	<b>895,000</b>

## Project: Intergovernmental Center Building Exterior Cleaning & Repairs

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2024

### Project Description

Multi-year project to clean and repair the exterior of the Intergovernmental Center.

### Project Justification

The Intergovernmental Center holds the offices for both City of Mankato and Independent School District 77 administration. The building, located in the heart of Downtown Mankato, is also the site of several outdoor concerts and events throughout the year.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Building Exterior Cleaning & Repairs	30,000	30,000	30,000	30,000	30,000	150,000
<b>Total</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>150,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	30,000	30,000	30,000	30,000	30,000	150,000
<b>Total</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>150,000</b>

### Project Timeline

Cleaning and exterior work will take place in the spring of each year to ensure the building is ready to host summer outdoor concerts.

## Project: Intergovernmental Center Hydronics Engineering Study

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Evaluation of the existing hydronics in the IGC mechanical system.

### Project Justification

The current hydronics in the mechanical system are not running properly due to sediment build up. An evaluation is needed of the entire system to recommend options for draining and cleaning the system and subsequent conversion to glycol.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Hydronics Study	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

An engineering firm will be contacted in winter of 2020 to complete the study. The final report will be complete by May 1, 2020 to ensure ample time to review and program any necessary follow up projects in future capital improvement plans.

## Project: Intergovernmental Center Re-key Building

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replacement of lock hardware throughout the Intergovernmental Center.

### Project Justification

Replacement of the original lock assemblies throughout the city portion of the IGC. The hardware is reaching the end of its useful life and obtaining replacement parts is becoming difficult. The new hardware would allow us to transition this building to the new system in place at the majority of the city's facilities.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Re-key Building	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

Hardware will be ordered in February of 2020 with installation complete in early summer of 2020.

## Project: Intergovernmental Center Roof Replacement - Front Half

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace north 2nd floor roofs, 3rd floor roof, and lower level bump out roofs.

### Project Justification

These Roof sections were evaluated in 2017 and been identified for replacement within 2-3 years, they have exceeded its life expectancy and are continuously in need of numerous repairs.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	454,500	0	0	0	0	454,500
Contingency	20,500	0	0	0	0	20,500
<b>Total</b>	<b>475,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>475,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	475,000	0	0	0	0	475,000
<b>Total</b>	<b>475,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>475,000</b>

### Project Timeline

Project bidding will be done over the winter months with construction taking place between June and August of 2020.

## Project: Intergovernmental Council Chamber Repairs

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Repair water damage above the council chambers.

### Project Justification

In late 2018, a leak in the skylight over the Council Chambers was detected. Unfortunately, substantial water damage was done to the drywall above the interior roof structure of the room. Repairs are needed to restore the area to its preexisting condition.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Council Chamber Repairs	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	30,000	0	0	0	0	30,000
<b>Total</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

Repairs will be completed in the spring of 2020.



## Project: Intergovernmental Center Back Hallway

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Asbestos Abatement and refresh of the back hallway of the IGC.

### Project Justification

The first floor hallway between the Mankato Place Mall and the IGC is in need of a refresh. The space is in need of cosmetic upgrades as well as removal and abatement of the original asbestos floor tile left over before the addition of the IGC.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Back Hallway	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

The project will be bid in Summer of 2021 with completion in fall of 2021.

## Project: Intergovernmental Center Elevator Controls Upgrade

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Upgrade original elevator mechanical relays and controls to solid state.

### Project Justification

This elevator was installed in 1997. The mechanical relays have been failing periodically over the past 3 years causing 2-3 entrapments per year.

### Project Uses

	2020	2021	2022	2023	2024	Total
Elevator upgrades	0	90,000	0	0	0	90,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	0	90,000	0	0	0	90,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>

### Project Timeline

Summer 2021

## Project: Intergovernmental Center Skylights

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Upgrade the skylights over the front entry, Council Chambers and the Finance Director's office.

### Project Justification

Skylights are original to the building and showing signs of fatigue. To prevent future catastrophic failure, replacement is warranted at this time.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC Skylights	0	165,000	0	0	0	165,000
<b>Total</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	0	165,000	0	0	0	165,000
<b>Total</b>	<b>0</b>	<b>165,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165,000</b>

### Project Timeline

Replacements will be made in the summer months of 2021.

## Project: Intergovernmental Center Exterior EFIS Repairs & Painting

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2022 - 2022

### Project Description

Repair and painting of the existing building EFIS.

### Project Justification

The IGC was constructed in 1997 and the building exterior has not seen any major maintenance in that time. During the compactor installation, it was discovered that the EFIS on the western portion of the building was in need of repairs. While the necessary repairs were completed in a small area, a larger project should be undertaken to ensure the building remains in good repair.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC EFIS Repairs & Painting	0	0	100,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	0	0	100,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

Project will be bid in spring of 2022 with project completion in the fall of 2022.

## Project: Intergovernmental Center Roof Top HVAC Units #1 & #2 Replacement

Department: IGC CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

RTU #1 and RTU #2 are the two main HVC units that handle the front portion of the 1st and 2nd floors of the Intergovernmental Center. This will be a complete equipment replacement program.

### Project Justification

Both units have exceeded their 25 year life cycle and are experiencing increased maintenance. Motors on both units were replaced in April 2018.

### Project Uses

	2020	2021	2022	2023	2024	Total
IGC HVAC Replacement	0	0	0	325,000	0	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>0</b>	<b>325,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
IGC Building	0	0	0	325,000	0	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>	<b>0</b>	<b>325,000</b>

### Project Timeline

Units will be replaced in the Spring or Fall of 2023 to reduce the the impact on the cooling season.





# **PARKS CAPITAL REPLACEMENT FUND**





## Cash Flow

Parks	2020	2021	2022	2023	2024	Illustrative
Projected Fund Balance	\$810,617.00	\$420,617.00	\$455,617.00	\$480,617.00	\$ 605,617.00	
Transfer from Parks Operational Maintenance	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	
CBDO Funds (*) If qualifying project	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	
Grants (awarded**) (proposed***)	\$150,000.00			\$187,500.00	\$75,000.00	
Charter Bonds@ (Expansion of new parks only; needs a match)		\$125,000.00		\$187,500.00	\$75,000.00	
Sales Tax funding (#) (Only regional parks; needs a match)				\$125,000.00		
Payment-in-lieu park dedication funding (Needs a match)				\$10,000.00		
Other contributions !				\$375,000.00	\$375,000.00	
Budgeted Amount for Parks CIP Projects (General Fund) Note: these						
<b>Available Funds</b>	<b>\$1,535,617.00</b>	<b>\$1,120,617.00</b>	<b>\$1,030,617.00</b>	<b>\$2,130,617.00</b>	<b>\$1,330,617.00</b>	
<b>Project Name</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>Total</b>
Highland Park Improvements* (\$75K Bathrooms%)	(\$455,000.00)	(\$10,000.00)				\$ (465,000.00)
Sibley Park Overlook	(\$95,000.00)					\$ (95,000.00)
Trail Creek Park Improvements		(\$130,000.00)				\$ (130,000.00)
Rogers/Sibley Parkway Park Development*		(\$120,000.00)				\$ (120,000.00)
Hinkler Pond Park Improvements (\$50K Bathrooms%)						\$ (355,000.00)
Alexander Park Improvements* (5)	(\$25,000.00)		(\$150,000.00)			\$ (175,000.00)
Lions Park Improvements				(\$125,000.00)		\$ (125,000.00)
Buscher Park Improvements (Bathrooms Only%)		(\$50,000.00)				\$ (50,000.00)
Erlandson Park Improvements (\$20K Bathrooms%)	(\$20,000.00)			\$ (175,000.00)		\$ (195,000.00)
Benapoli Park Improvements*	(\$100,000.00)					\$ (100,000.00)
Elks Nature Center Relocation# (\$125K Sales, \$125K CIP Fund#)	\$ (125,000.00)					\$ (125,000.00)
Facility Maintenance				\$ (50,000.00)		\$ (50,000.00)
Rasmussen Floating Trail#*** (\$187.5K Sales, \$187.5 Grant)				(\$187,500.00)		\$ (187,500.00)
Land of Memories Park Improvements# (\$75K Sales, \$75K Grant)					\$ (75,000.00)	\$ (75,000.00)
Thomas Park (6)	(\$75,000.00)					\$ (75,000.00)
Surface Upgrades (1 2 4)	(\$990,000.00)		(\$400,000.00)	\$0.00	(\$125,000.00)	\$ (715,000.00)
<b>CIP Funding Incurred</b>	<b>(\$990,000.00)</b>	<b>(\$310,000.00)</b>	<b>(\$550,000.00)</b>	<b>(\$537,500.00)</b>	<b>(\$605,000.00)</b>	<b>\$ (3,087,500.00)</b>
Land of Memories Park Improvements# (\$75K Sales, \$75K Grant)					\$ (75,000.00)	\$ (75,000.00)
Elks Nature Center Relocation#	\$ (125,000.00)					\$ (125,000.00)
Sibley Park Improvements (Ball Field Side)#						\$ -
Rasmussen Floating Trail#*** (\$187.5K Sales, \$187.5 Grant)				(\$187,500.00)		\$ (187,500.00)
Land of Memories Campground Improvements#						\$ (200,000.00)
<b>Proposed Sales Tax Funding Incurred</b>	<b>\$ (125,000.00)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (187,500.00)</b>	<b>\$ (75,000.00)</b>	<b>\$ (387,500.00)</b>
Development of Park on PWC Land - Behind Public Works Building* @ (100K CDBG, 125K PL, 225K Charter Bonds)				(\$450,000.00)		\$ (450,000.00)
Kearney Pond Park @ (10K Other, 340K Charter.)				\$ (350,000.00)		\$ (350,000.00)
Prairie Winds Park Improvements		(\$355,000.00)				\$ (355,000.00)
<b>Proposed Charter Bond Funding Incurred</b>	<b>\$ -</b>	<b>\$ (355,000.00)</b>	<b>\$ -</b>	<b>\$ (800,000.00)</b>	<b>\$ -</b>	<b>\$ (800,000.00)</b>
<b>Total Capital Enhancement</b>	<b>\$ (1,115,000.00)</b>	<b>\$ (665,000.00)</b>	<b>\$ (550,000.00)</b>	<b>\$ (1,525,000.00)</b>	<b>\$ (680,000.00)</b>	<b>\$ (7,717,500.00)</b>
<b>Fund Balance</b>	<b>\$ 420,617.00</b>	<b>\$ 455,617.00</b>	<b>\$ 480,617.00</b>	<b>\$ 605,617.00</b>	<b>\$ 650,617.00</b>	
<b>Illustrative Funding Total</b>						
(1) 2019 costs - Basketball court resurfacing estimate \$30,000; West Mankato Park, Highland Park, Heritage Estates Park, Erlandson Park, Country Club Park, Alexander Park						
(2) 2019 costs - Tennis Courts \$20,000						
(3) Bathroom/shelter remodels funding source TBD (not included in the costs above)						
% Costs based on Facilities Park Buildings Review Summary						
(4) 2022 costs - Jaycee \$100K, Caledonia \$100K Parking						
(5) 2020 - Alexander \$25,000 bathroom modifications proposed						
(6) 2020 \$75K included for bathroom improvements in existing facility						

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Alexander Park Improvements	2020	25,000
Bienapfl Park	2020	100,000
Elks Nature Center Relocation Improvements	2020	125,000
Erlandson Park Bathrooms	2020	20,000
Highland Park Improvements	2020	455,000
Parks Surface Upgrades	2020	95,000
Sibley Park Overlook	2020	95,000
Thomas Park Bathrooms	2020	75,000
<b>Subtotal</b>		<b>990,000</b>
<b>Total</b>		<b>990,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Buscher Park Improvements	2021	50,000
Highland Park Improvements	2021	10,000
Rogers/Sibley Parkway Park Development	2021	120,000
Trail Creek Park Improvements	2021	130,000
<b>Subtotal</b>		<b>310,000</b>
<b>Total</b>		<b>310,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Alexander Park Improvements	2022	150,000
Parks Surface Upgrades	2022	400,000
<b>Subtotal</b>		<b>550,000</b>
<b>Total</b>		<b>550,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Erlandson Park Improvements	2023	175,000
Facility Maintenance Upgrades	2023	50,000
Lions Park Improvements	2023	125,000
Ramussen Floating Trail	2023	187,500
<b>Subtotal</b>		<b>537,500</b>
<b>Total</b>		<b>537,500</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Facility Maintenance Upgrades	2024	50,000
Hiniker Pond Park Improvements	2024	355,000
Land of Memories Park Improvements	2024	75,000
Parks Surface Upgrades	2024	125,000
<b>Subtotal</b>		<b>605,000</b>
<b>Total</b>		<b>605,000</b>

## Project: Alexander Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2022

### Project Description

Bathroom upgrades, shelter upgrades.

### Project Justification

The restroom facility and shelter were built in 1990. The way the neighborhood utilizes these facilities has changed over the years and is in need of improvements.

### Project Uses

	2020	2021	2022	2023	2024	Total
Other Park Improvements	25,000	0	100,000	0	0	125,000
Shelter	0	0	50,000	0	0	50,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	25,000	0	50,000	0	0	75,000
CBDG	0	0	100,000	0	0	100,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

To be completed in 2022.

## Project: Bienapfl Park

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

## Project Description

In conjunction with street reconstruction and other infrastructure projects proposed in Germania Park, park improvements are proposed. CBDG is proposed for \$100,000 of the improvements.

## Project Justification

With the proposed street and infrastructure modifications proposed for the neighborhood, park modifications are proposed.

## Project Uses

	2020	2021	2022	2023	2024	Total
Park Improvements	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
CBDG	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

## Project Timeline

The project is proposed for 2020.

## Project: Elks Nature Center Relocation Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Relocation of Elks Nature Center.

### Project Justification

The existing nature center is located in an area prone to flooding.

### Project Uses

	2020	2021	2022	2023	2024	Total
Nature Center Improvements	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	125,000	0	0	0	0	125,000
<b>Total</b>	<b>125,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

To be completed in 2021.

## Project: Erlandson Park Bathrooms

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

The propose of the project is to upgrade and maintain the restroom building in Erlandson Park.

### Project Justification

An evaluation was conducted of park buildings and it was determined that maintenance and repairs are needed in the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bathroom maintenance and repairs	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

The proposed improvement will occur in 2020.

## Project: Highland Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2021

### Project Description

A new playground unit will be installed in Highland Park. The play equipment will be designed to meet CPSC requirements for safe play equipment and will provide opportunities for play in accordance with ADA requirements.

### Project Justification

The Highland Park playground equipment is life cycled out. It is also difficult to find replacement parts for this unit. Due to its age and condition, the unit is scheduled for replacement. A DNR grant has been secured to fund a portion of the project.

### Project Uses

	2020	2021	2022	2023	2024	Total
Other Park Improvements	269,000	10,000	0	0	0	279,000
Playground	186,000	0	0	0	0	186,000
<b>Total</b>	<b>455,000</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>465,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	455,000	10,000	0	0	0	465,000
<b>Total</b>	<b>455,000</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>465,000</b>

### Project Timeline

Preliminary grading work to be completed in 2019 with playground installation, park amenities, and final grading done in 2020.



## Project: Parks Surface Upgrades

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2024

### Project Description

Surface improvements in the parks are needed including resurfacing of Alexander and Erlandson Parks. Surface improvements may also include resurfacing and reconstruction of parking lots at related parks.

### Project Justification

Surface improvements in the parks are needed including resurfacing of Alexander and Erlandson Parks. Surface improvements may also include resurfacing and reconstruction of parking lots at related parks.

### Project Uses

	2020	2021	2022	2023	2024	Total
Surface Improvements	95,000	0	400,000	0	125,000	620,000
<b>Total</b>	<b>95,000</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>125,000</b>	<b>620,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	95,000	0	400,000	0	125,000	620,000
<b>Total</b>	<b>95,000</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>125,000</b>	<b>620,000</b>

### Project Timeline

The improvements are scheduled for 2023 and 2024.

## Project: Sibley Park Overlook

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Reconstruct the wall around the Sibley Park outlook and install a base which allows for adequate drainage in the future. A design for the proposed wall replacement will be formulated in 2019.

### Project Justification

The wall on the outlook has been pushed out approximately 6 inches by the freeze thaw cycle. The wall is in danger of falling and could pose a public hazard if necessary repairs are not made.

### Project Uses

	2020	2021	2022	2023	2024	Total
Wall reconstruction	95,000	0	0	0	0	95,000
<b>Total</b>	<b>95,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	95,000	0	0	0	0	95,000
<b>Total</b>	<b>95,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95,000</b>

### Project Timeline

To be completed in 2020.

## Project: Thomas Park Bathrooms

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Thomas Park restroom building is in need of maintenance and repairs.

### Project Justification

An evaluation was conducted of park buildings and it was determined that maintenance and repairs are needed in the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bathroom renovations and maintenance	75,000	0	0	0	0	75,000
<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	75,000	0	0	0	0	75,000
<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>

### Project Timeline

The anticipated improvements would be completed in 2020.

## Project: Buscher Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Bathroom upgrade based on Parks Facility Upgrades Needed document.

### Project Justification

Improvements to the restroom facility are needed to required maintenance of the building.

### Project Uses

	2020	2021	2022	2023	2024	Total
Bathroom Upgrades	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

To be completed in 2021.

## Project: Rogers/Sibley Parkway Park Development

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Develop the lot located at the SE corner of Rogers Street and Sibley Parkway into a basic neighborhood park with a small playground unit and a trail.

### Project Justification

The neighborhood is lacking a neighborhood park. They are in fairly close proximity to Sibley Park, however this is a very popular Community Park with a regional draw. This park would fulfill the needs of the area residents for a neighborhood park and create a small space for local gatherings.

### Project Uses

	2020	2021	2022	2023	2024	Total
Park Development	0	120,000	0	0	0	120,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	20,000	0	0	0	20,000
CBDG	0	100,000	0	0	0	100,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

To be completed in 2021.

## Project: Trail Creek Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Install a two stall family restroom facility within the park and bring electrical power to the shelter.

### Project Justification

The neighborhood is rich with in home child care providers. Many of these providers take the children to the park on a daily basis which creates a very busy environment. While at the park, the only restroom facility is a portable restroom which prevents the child care provider from supervising the other children while supporting younger children in their toileting needs. This park also serves as a trail head for the neighborhood to access the Sakatah Trail. There is currently no power at the shelter. This limits the neighborhood usage.

### Project Uses

	2020	2021	2022	2023	2024	Total
Power to Shelter	0	10,000	0	0	0	10,000
Prefabricated Restroom Facility	0	120,000	0	0	0	120,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	130,000	0	0	0	130,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Project Timeline

To be completed in 2021.

## Project: Erlandson Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

A new playground unit will be installed. The play equipment will be designed to meet CPSC requirements for safe play equipment and will provide opportunities for play in accordance with ADA requirements.

### Project Justification

The playground equipment is life cycled out. It is also difficult to find replacement parts for this unit. Due to its age and condition, the unit is scheduled for replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Upgrades to playground and other park amenities	0	0	0	175,000	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	175,000	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

To be completed in 2024 or beyond.

## Project: Facility Maintenance Upgrades

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2024

### Project Description

As per the Facilities Park Buildings Review Summary, projects are required to provide maintenance throughout the park system.

### Project Justification

As per the Facilities Park Buildings Review Summary, projects are required to provide maintenance throughout the park system.

### Project Uses

	2020	2021	2022	2023	2024	Total
Park maintenance per Facilities Park Buildings Plan	0	0	0	50,000	50,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>50,000</b>	<b>100,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	50,000	50,000	100,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>50,000</b>	<b>100,000</b>

### Project Timeline

The anticipated improvements are 2023-2024.



## Project: Lions Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

Remove the existing shelter and install two new shelters with electrical power within the park. One shelter is to be placed on the West side of the park, near the playground, while the other is proposed to be placed on the East side, near the armory.

### Project Justification

The existing shelter is quite small and does not receive much usage. It is also located very close to the shore which creates a break in the water quality buffer strip and is an access point for geese to walk up onto the shore. The geese have been identified as a public nuisance due to all of the feces they leave behind. The new shelter will be relocated closer to the playground and have power. The East side of the park does not currently offer any gathering space. A shelter with power will provide an opportunity for the public to relax in a quiet space and have a gathering without the hustle and bustle of the playground nearby.

### Project Uses

	2020	2021	2022	2023	2024	Total
Shelter Construction and utilities	0	0	0	125,000	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	125,000	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

To be completed in 2023.

## Project: Ramussen Floating Trail

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2023 - 2023

## Project Description

The rebuilding to of the Rasmussen Woods floating trail.

## Project Justification

Maintenance and improvements are needed to the Rasmussen Woods floating trail due to flooding.

## Project Uses

	2020	2021	2022	2023	2024	Total
Rasmussen Floating Trail	0	0	0	187,500	0	187,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>187,500</b>	<b>0</b>	<b>187,500</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Grant	0	0	0	187,500	0	187,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>187,500</b>	<b>0</b>	<b>187,500</b>

## Project Timeline

Planned improvements in 2023.

## Project: Hiniker Pond Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2024 - 2024

### Project Description

An open air shelter with electricity and restroom facility will be erected on the east side of the pond to provide an opportunity for larger gatherings. Angled parking will also be installed to provide parking opportunities near the sand volleyball courts and the new shelter. A fitness obstacle course will also be stationed at multiple locations along the trail around Hiniker Pond to provide an outdoor fitness opportunity for the public. Sand volleyball updates will be made. \$50,000 is to be used for bathroom facility improvements.

### Project Justification

Hiniker Park currently has minimal amenities. As we work towards revitalization of the facility, the addition of a second shelter, a fitness obstacle course and angled parking near the sand volleyball court and new shelter location will increase the number of activities and amenities available to the public and promote additional use.

### Project Uses

	2020	2021	2022	2023	2024	Total
Angled Parking	0	0	0	0	25,000	25,000
Bathroom	0	0	0	0	50,000	50,000
Fitness Course	0	0	0	0	150,000	150,000
Shelter	0	0	0	0	100,000	100,000
Volleyball Courts	0	0	0	0	30,000	30,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>355,000</b>	<b>355,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	0	355,000	355,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>355,000</b>	<b>355,000</b>

### Project Timeline

To be completed in 2024

## Project: Land of Memories Park Improvements

Department: PARKS CAPITAL REPLACEMENT FUND

Project Years: 2024 - 2024

### Project Description

A new playground unit will be installed in Land of Memories Park. The play equipment will be designed to meet CPSC requirements for safe play equipment and will provide opportunities for play in accordance with ADA requirements.

### Project Justification

The existing playground unit was installed in 1995. It is difficult to find replacement parts for this unit and has reached the end of its proposed life cycle. The addition of a Native American themed playground unit will be an attraction to families and provide an opportunity for public education.

### Project Uses

	2020	2021	2022	2023	2024	Total
Land of Memories Improvements	0	0	0	0	75,000	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>75,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Grant	0	0	0	0	75,000	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>75,000</b>

### Project Timeline

To be completed in 2022



# **PUBLIC WORKS BUILDING REPLACEMENT FUND**



## Cash Flow

### Public Works Center

Projected Fund Balance

2020

2021

2022

2023

2024

\$557,554

\$505,554

\$597,554

\$1,002,554

\$1,527,554

### Transfer-In PWC

\$550,000

\$550,000

\$550,000

\$550,000

\$550,000

**Available Funds** \$1,107,554 \$1,055,554 \$1,147,554 \$1,552,554 \$2,077,554

Project Name	2020	2021	2022	2023	2024	Total
Public Works Center - New Fuel Station	\$ (120,000.00)					\$ (120,000.00)
Public Works Center - Asbestos Abatement	\$ (25,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (25,000.00)	\$ (125,000.00)
Public Works Center - Replace Oil Heater in Bay 3	\$ (20,000.00)					\$ (20,000.00)
Public Works Center - Garage Area Restroom Upgrade	\$ (120,000.00)					\$ (120,000.00)
Public Works Center - Floor Drain Replacement	\$ (25,000.00)					\$ (25,000.00)
Public Works Center - Master Plan Phase I - Site Preparation	\$ (150,000.00)					\$ (150,000.00)
Public Works Old Infrastructure/DNR - Building and HVAC Upgrades	\$ (22,000.00)					\$ (22,000.00)
Public Works Center - Lunch Room Tables and Chairs	\$ (20,000.00)					\$ (20,000.00)
Public Works Center - Bay 3 Pressure Washer	\$ (15,000.00)					\$ (15,000.00)
Public Works Old Infrastructure/DNR - Garage Remodel	\$ (85,000.00)					\$ (85,000.00)
Public Works Center - Welding Shop Exhaust System		\$ (150,000.00)				\$ (150,000.00)
Public Works Center - Replace Vehicle Hoists		\$ (23,000.00)				\$ (23,000.00)
Public Works Center - Central Garage Additional Hoist & Chimney Removal		\$ (35,000.00)				\$ (35,000.00)
Public Works Center - Skylight Installation		\$ (50,000.00)				\$ (50,000.00)
Public Works Center - Circulating Pumps		\$ (15,000.00)				\$ (15,000.00)
Public Works Center - Power Roof Vents		\$ (40,000.00)				\$ (40,000.00)
Public Works Center - Exterior Door Replacement		\$ (120,000.00)	\$ (120,000.00)			\$ (240,000.00)
Public Works Center - Painting of Bays 1, 2, & 3				\$ (300,000.00)		\$ (300,000.00)
Public Works Center - 1st Floor Remodel of Administration Building						
<b>Total</b>	<b>\$ (602,000.00)</b>	<b>\$ (458,000.00)</b>	<b>\$ (145,000.00)</b>	<b>\$ (25,000.00)</b>	<b>\$ (325,000.00)</b>	<b>\$ (1,555,000.00)</b>

Fund Balance \$ 505,554.07 \$ 597,554.07 \$ 1,002,554.07 \$ 1,527,554.07 \$ 1,752,554.07

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Center - Asbestos Abatement	2020	25,000
Public Works Center - Bay 3 Pressure Washer	2020	15,000
Public Works Center - Floor Drain Replacement	2020	25,000
Public Works Center - Garage Area Restroom Upgrade	2020	120,000
Public Works Center - Lunch Room Tables and Chairs	2020	20,000
Public Works Center - Master Plan Phase I - Site Preparation	2020	150,000
Public Works Center - New Fuel Station	2020	120,000
Public Works Center - Replace Oil Heater in Bay 3	2020	20,000
Public Works Old Infrastructure/DNR - Building and HVAC Upgrades	2020	22,000
Public Works Old Infrastructure/DNR - Garage Remodel	2020	85,000
<b>Subtotal</b>		<b>602,000</b>
<b>Total</b>		<b>602,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Center - Asbestos Abatement	2021	25,000
Public Works Center - Central Garage Additional Hoist	2021	35,000
Public Works Center - Circulating Pumps	2021	15,000
Public Works Center - Exterior Door Replacement	2021	120,000
Public Works Center - Power Roof Vents	2021	40,000
Public Works Center - Replace Vehicle Hoists	2021	23,000
Public Works Center - Skylight Installation	2021	50,000
Public Works Center - Welding Shop Exhaust System	2021	150,000
<b>Subtotal</b>		<b>458,000</b>
<b>Total</b>		<b>458,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Center - Asbestos Abatement	2022	25,000
Public Works Center - Exterior Door Replacement	2022	120,000
<b>Subtotal</b>		<b>145,000</b>
<b>Total</b>		<b>145,000</b>



## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Center - Asbestos Abatement	2023	25,000
Subtotal		25,000
Total		25,000

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Works Center - Asbestos Abatement	2024	25,000
Public Works Center - Painting of Bays 1, 2, & 3	2024	300,000
Subtotal		325,000
Total		325,000

## Project: Public Works Center - Asbestos Abatement

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2024

### Project Description

Multi-year project to continue the abatement of asbestos throughout the facility.

### Project Justification

The original MNDOT portions of the building still contain asbestos wrapping on some of the mechanical systems that should be removed. This project would also remove the old mechanical units that were serviced by the piping.

### Project Uses

	2020	2021	2022	2023	2024	Total
Asbestos Abatement	25,000	25,000	25,000	25,000	25,000	125,000
<b>Total</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>125,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	25,000	25,000	25,000	25,000	25,000	125,000
<b>Total</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>125,000</b>

### Project Timeline

Work will be undertaken each year as service area schedules allow.

## Project: Public Works Center - Bay 3 Pressure Washer

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace the existing equipment pressure washer.

### Project Justification

This pressure washer is 12 yrs old and the heat exchanger is showing signs of pending failure.

### Project Uses

	2020	2021	2022	2023	2024	Total
New pressure washer	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Equipment will be purchased in January 2020 so it can be utilized during the snow removal operations.

## Project: Public Works Center - Floor Drain Replacement

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace the failing floor drains in Bay 2 and 3.

### Project Justification

The floor drains in Bays 2 and 3 of the Public Works Center are original to the facility. They are failing and are in need of replacement to ensure a clean and safe environment for staff.

### Project Uses

	2020	2021	2022	2023	2024	Total
PWC floor drain replacement	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

2nd quarter - 2020

## Project: Public Works Center - Garage Area Restroom Upgrade

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Remodel the garage restrooms.

### Project Justification

These restrooms are from the original 1960's construction and have most of the original plumbing fixtures. They currently do not meet the current ADA standards.

### Project Uses

	2020	2021	2022	2023	2024	Total
PWC restroom upgrades	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

2nd quarter - 2020

## Project: Public Works Center - Lunch Room Tables and Chairs

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

New lower level lunch room tables and chairs.

### Project Justification

The existing 8 year old plastic tables and chairs were a temporary solution to occupy the building. They have exceeded the recommended time of 5 years. They are becoming unsightly and worn looking.

### Project Uses

	2020	2021	2022	2023	2024	Total
Tables and Chairs	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Furniture will be acquired in January 2020.

## Project: Public Works Center - Master Plan Phase I - Site Preparation

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Site improvements to the south end of the Public Works Center

### Project Justification

With the relocation of the fuel island to the southern edge of the Public Works Campus, improvements to the drainage and pavement will need to be made to ensure efficient and safe operations. Soil contamination has previously been identified in this area and will need to be disposed of per MPCA guidelines.

### Project Uses

	2020	2021	2022	2023	2024	Total
PWC Master Plan Phase I	150,000	0	0	0	0	150,000
<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	150,000	0	0	0	0	150,000
<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Project Timeline

Design will take place in conjunction with the fuel station upgrade in fall of 2019.

Construction will begin in spring of 2020.

## Project: Public Works Center - New Fuel Station

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Install a New Fueling Station with Canopy for the Public Works Center.

### Project Justification

New Fuel Station is to replace the old fueling station area which will help prevent rain water from washing fuel contaminants into the storm drain system. This project will have 80% funding from MNDOT/Federal Government and 20% from the City of Mankato. Transit has applied for and has been awarded a grant of \$480,000 in 2020. The city's match of \$120,000 will come from the Public Works Capital Fund as this will be a shared use facility. The Public Works Master Plan calls for the new fueling station to be located in the southwest corner of the campus which will reduce the light pollution into the neighboring Eastwood Manor.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct New Fueling Station	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

Design can begin in fall of 2019 with construction to start in spring of 2020. This work can be done while the existing fuel station is still in service, not creating any disruption of service. Once the new station is on line the old fuel station can be removed.



## Project: Public Works Center - Replace Oil Heater in Bay 3

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replacement of the waste oil unit heater in Bay 3. Waste oil generated from the Central Garage is used as a source of heat for this area.

### Project Justification

This unit is a carryover from MnDOT and has reached the end of its useful life.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replace Oil Heater	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

New unit will be purchased and installed after the heating season has ended in spring of 2020.

## Project: Public Works Old Infrastructure/DNR - Building and HVAC Upgrades

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace exterior doors, bathroom plumbing fixtures, carpet replacement in the 117 Rogers St (DNR), HVAC improvements, and roofing repairs

### Project Justification

The MN Department of Natural Resources is a long term lease holder for this facility. Improvements are necessary to keep the building up to acceptable standards in accordance with the lease.

### Project Uses

	2020	2021	2022	2023	2024	Total
Building and HVAC Upgrades	22,000	0	0	0	0	22,000
<b>Total</b>	<b>22,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	22,000	0	0	0	0	22,000
<b>Total</b>	<b>22,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,000</b>

### Project Timeline

2nd quarter 2020

## Project: Public Works Old Infrastructure/DNR - Garage Remodel

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Remodel the rear garage area of 117 Rogers St to maximize usable space for vehicle storage.

### Project Justification

With the likely demolition of the 750 Mound Ave building, staff is recommended some modifications to this existing space to create 3 drive thru bays for parking and storage for Public Safety and Public Works.

### Project Uses

	2020	2021	2022	2023	2024	Total
Garage Remodel	85,000	0	0	0	0	85,000
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	85,000	0	0	0	0	85,000
<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

### Project Timeline

Bids will be solicited in winter of 2020.

Construction would begin in the spring of 2020.

## Project: Public Works Center - Central Garage Additional Hoist

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Remove the old boiler chimney in the Central Garage and install a new drive on hoist.

### Project Justification

As the city vehicle fleet grows and ages, Central Garage staff are undertaking more maintenance activities to extend the useful life of the equipment. An additional drive on hoist would help maximize efficiencies in the shop by allowing full utilization of the existing stalls. The unused chimney would need to be removed to allow space for the additional full depth stall and hoist.

### Project Uses

	2020	2021	2022	2023	2024	Total
Chimney demolition	0	12,000	0	0	0	12,000
Purchase and install hoist	0	23,000	0	0	0	23,000
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	35,000	0	0	0	35,000
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

Chimney will be demolished in January 2021 as the roof penetration has already been sealed during a previous project.

Hoist will be purchased and installed in February 2021.

## Project: Public Works Center - Circulating Pumps

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of the Public Works Center Circulating Pumps

### Project Justification

Replacement of the aging circulating pumps located in the basement mechanical room of the Public Works Center. These pumps are a critical element of the HVAC system in the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Circulating Pumps & Installation	0	15,000	0	0	0	15,000
<b>Total</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	15,000	0	0	0	15,000
<b>Total</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Pumps would be installed during the spring to reduce downtime to the system.

## Project: Public Works Center - Exterior Door Replacement

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2022

### Project Description

Remove and replace aging overhead and service doors at the Public Works Center.

### Project Justification

Many of the overhead and service entry doors have been in place since the building was owned by MnDOT. Some of the doors are starting to rust, warp, and not work properly. This project will replace ten (10) each of the overhead and service entrance doors throughout the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replace 10 Overhead Doors	0	70,000	70,000	0	0	140,000
Replace 10 Service Doors	0	50,000	50,000	0	0	100,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	120,000	120,000	0	0	240,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>240,000</b>

### Project Timeline

Doors will be identified for replacement in the spring of 2022. Work will take place in the summer of 2022.

## Project: Public Works Center - Power Roof Vents

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of the Power Roof Vents in Bays 2 and 3 of the Public Works Center.

### Project Justification

These vent noxious fumes such as vehicle exhaust, carbon monoxide, and nitrogen dioxide to ensure a safe working environment is present for employees.

### Project Uses

	2020	2021	2022	2023	2024	Total
New Power Roof Vents	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

Construction will take place in May of 2021.

## Project: Public Works Center - Replace Vehicle Hoists

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replace two (2) 4 post vehicle hoists

### Project Justification

The hoists currently used by Central Garage staff were left by MnDOT after the City purchased the building. They are beyond their life expectancy and should be replaced to provide a safer working environment for staff.

### Project Uses

	2020	2021	2022	2023	2024	Total
2 vehicle hoists and installation	0	23,000	0	0	0	23,000
<b>Total</b>	<b>0</b>	<b>23,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	23,000	0	0	0	23,000
<b>Total</b>	<b>0</b>	<b>23,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,000</b>

### Project Timeline

Vehicle hoists would be purchased and installed by staff in February of 2021.



## Project: Public Works Center - Skylight Installation

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Installation of skylights in the maintenance and storage bays of the Public Works Center.

### Project Justification

Skylights would be installed in Bays 1, 2 and 3 of the Public Works Center to increase the amount of natural light entering the building and reducing the need for continuous lighting throughout the day.

### Project Uses

	2020	2021	2022	2023	2024	Total
Skylights	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	50,000	0	0	0	50,000
<b>Total</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

Bids would be solicited in spring of 2021 with installation occurring in the summer months.

## Project: Public Works Center - Welding Shop Exhaust System

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of the Welding Shop Exhaust and engineering study to determine proper sizing.

### Project Justification

The exhaust system was installed prior to the city acquiring the property. The system is no longer functioning properly and a replacement needs to be designed to maintain the air quality for those working in the space.

### Project Uses

	2020	2021	2022	2023	2024	Total
Engineering Study	0	15,000	0	0	0	15,000
New MAU for Welding Shop	0	135,000	0	0	0	135,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Project Timeline

Engineering study will be conducted in January 2021.

Bids will be solicited in March of 2021.

Construction to begin in May of 2021.

## Project: Public Works Center - Painting of Bays 1, 2, & 3

Department: PUBLIC WORKS BUILDING REPLACEMENT FUND

Project Years: 2024 - 2024

### Project Description

Interior painting of the maintenance and storage bays.

### Project Justification

The interior paint is starting to show signs of wear. Previous projects have focused on HVAC and air quality upgrades to these spaces for safety and building longevity.

### Project Uses

	2020	2021	2022	2023	2024	Total
Painting of Bays 1, 2 & 3	0	0	0	0	300,000	300,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>	<b>300,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Public Works Building	0	0	0	0	300,000	300,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>	<b>300,000</b>

### Project Timeline

Painting would take place in the summer of 2024 to ensure reduced disruption to the service areas. Temporary works areas will need to be set up to ensure continued operations.





# **PUBLIC SAFETY BUILDING REPLACEMENT FUND**



## Cash Flow

### Public Safety Center

Fund Balance

\$1,135,010 \$1,025,010 \$1,324,510 \$1,609,510 \$1,994,510

### Transfer-In PSC

\$525,000 \$525,000 \$525,000 \$525,000 \$525,000

### Available Funds

\$1,660,010 \$1,550,010 \$1,849,510 \$2,134,510 \$2,519,510

Project Name	2020	2021	2022	2023	2024	Total
Public Safety Center - Fire Apparatus Bay Floor Grate Repairs	\$ (15,000.00)					\$ (15,000.00)
Public Safety Center - Maintenance Walkway for Air Handler	\$ (25,000.00)					\$ (25,000.00)
Fire Station 3 - Replace Overhead Apparatus Bay Doors	\$ (20,000.00)					\$ (20,000.00)
Public Safety Center - Turnout Gear Washer & Dryer	\$ (15,000.00)					\$ (15,000.00)
Fire Station 2 - Concrete Apron Replacement & Footings for HAZMAT Shed	\$ (15,000.00)					\$ (15,000.00)
Public Safety Center - Parking Ramp Coating & Repairs	\$ (20,000.00)					\$ (20,000.00)
Public Safety Center - State Street HVAC Upgrades	\$ (75,000.00)					\$ (75,000.00)
ARMER Radio Replacement	\$ (450,000.00)					\$ (450,000.00)
Public Safety Center - Sidewalk Handrail to Upper Parking Lot	\$ (8,000.00)					\$ (8,000.00)
Public Safety Center, Fire Station 2 & 3 - BAS Upgrade	\$ (90,000.00)					\$ (90,000.00)
Fire Station 3 - MAU Replacement	\$ (40,000.00)					\$ (40,000.00)
Fire Station 3 - Carpeting	\$ (7,500.00)					\$ (7,500.00)
Fire Station 3 - Parking Lot Reconstruction	\$ (80,000.00)					\$ (80,000.00)
Public Safety Center - Fire Apparatus Bay Door Refurbishment		\$ (110,000.00)				\$ (110,000.00)
Public Safety Center - Boiler Replacement		\$ (130,000.00)				\$ (130,000.00)
Fire Station 3 - Paint Apparatus Bay Interior			\$ (60,000.00)			\$ (60,000.00)
Fire Station 3 - HVAC Replacement			\$ (80,000.00)			\$ (80,000.00)
<b>Total</b>	<b>\$ (635,000.00)</b>	<b>\$ (225,500.00)</b>	<b>\$ (240,000.00)</b>	<b>\$ (140,000.00)</b>	<b>\$ -</b>	<b>\$ (1,240,500.00)</b>

Fund Balance

\$ 1,025,009.97 \$ 1,324,509.97 \$ 1,609,509.97 \$ 1,994,509.97 \$ 2,519,509.97

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
ARMER Radio replacement	2020	450,000
Fire Station 2 - Concrete Apron Replacement & Footings for HAZMAT Shed	2020	15,000
Fire Station 3 - Replace Overhead Apparatus Bay Doors	2020	20,000
Public Safety Center - Fire Apparatus Bay Floor Grate Repairs	2020	15,000
Public Safety Center - Maintenance Walkway for Air Handler	2020	25,000
Public Safety Center - Parking Ramp Coating & Repairs	2020	20,000
Public Safety Center - State Street HVAC Upgrades	2020	75,000
Public Safety Center - Turnout Gear Washer & Dryer	2020	15,000
<b>Subtotal</b>		<b>635,000</b>
<b>Total</b>		<b>635,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Fire Station 3 - Carpeting	2021	7,500
Fire Station 3 - MAU Replacement	2021	40,000
Fire Station 3 - Parking Lot Reconstruction	2021	80,000
Public Safety Center - Sidewalk Handrail to Upper Parking Lot	2021	8,000
Public Safety Center, Fire Station 2 & 3 - BAS Upgrade	2021	90,000
<b>Subtotal</b>		<b>225,500</b>
<b>Total</b>		<b>225,500</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Public Safety Center - Boiler Replacement	2022	130,000
Public Safety Center - Fire Apparatus Bay Door Refurbishment	2022	110,000
<b>Subtotal</b>		<b>240,000</b>
<b>Total</b>		<b>240,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Fire Station 3 - HVAC Replacement	2023	80,000
Fire Station 3 - Paint Apparatus Bay Interior	2023	60,000
<b>Subtotal</b>		<b>140,000</b>
<b>Total</b>		<b>140,000</b>



## **Project: ARMER Radio replacement**

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### **Project Description**

This project will replace all Public Safety portable and mobile vehicle ARMER radios with upgraded next generation Motorola APX P25 radios. The project will also include the installation of a radio management system and higher level of encryption for the radios. Replacing Public Safety radios will allow for the transfer of certain portable radios to the Public Works Department and Verizon Center in order to bring them onto the Statewide ARMER Raioed System for inter-operable radio communication with public safety during critical incidents or community emergencies.

### **Project Justification**

The current radios used by Public Safety personnel were put into service in 2012 and will be 8 years old at the end of 2019. Motorola stopped manufacturing our current radios in 2014 and will no longer provide repair service or support after December 31, 2019. These radios require technical and software updates frequently, which we will no longer be able to complete due to the "end of life" of these radios.

The upgraded radios will allow for Bluetooth connections to be made by fire staff while wearing SCBA equipment, creating more clear and safe communications during a structure fire or other incident requiring the use of SCBA equipment.

Currently, in order to reprogram the radios, they must be taken out of service for a period of time to connect them to a computer to complete the programming or install the update. The installation of the Radio Management System would allow for these updates to be completed utilizing wireless technology while keeping the radios, and personnel, in service. This option also saves the staff time needed to physically complete the updates.

Our current radios have a basic level of encryption for talk-group security. With the advancement of technology, programs are available to the media, public, and criminals to help defeat these basic levels of encryption in order to monitor public safety communications. It is becoming increasingly common for public safety agencies to enhance their encryption level in order to prevent this monitoring from occurring. By increasing the encryption level of new police radios, we will have the option to utilize enhanced encrypted talk-groups for normal communications or specific incidents that the general public, media, and criminals cannot monitor.

As of today, Public Safety, Public Works, and Civic Center personnel are on different radio systems and are unable to communicate directly during a critical incident or community emergency.

With the purchase of new Public Safety radios, the transfer of existing properly working radios to Public Works and Civic Center personnel will allow these service areas to migrate onto the Statewide ARMER radio system. This will allow for complete radio inter-operability between each of these service areas during critical incidents or community emergencies.

Lastly, the Civic Center radio system currently utilizes two city owned 800MHz repeated radio channels. Once the Civic Center has been migrated to the Statewide ARMER radio system, these two radio channels will be programmed into each Public Safety radio and utilized as a back-up radio system for Public Safety should the Statewide ARMER radio system fail or local ARMER infrastructure be damaged due to a natural disaster.

## Project Uses

	2020	2021	2022	2023	2024	Total
Replace Public Safety ARMER radios	450,000	0	0	0	0	450,000
<b>Total</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	450,000	0	0	0	0	450,000
<b>Total</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>

## Project Timeline

This project will be completed during a 4 year timeline beginning in 2020 with the replacement of full-time personnel portable radios and installing the Radio Management System. This phase will allow for existing radios to be transferred to Public Works and Civic Center personnel. The next 3 years of the timeline will see the replacement of part-time and reserve personnel radios (2021), vehicle mobile radios (2022), and any remaining personnel (2023).

## Project: Fire Station 2 - Concrete Apron Replacement & Footings for HAZMAT Shed

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replacement of Apron and shed relocation at Fire Station 2

### Project Justification

Replace failing concrete on the rear App Bay apron and install a concrete pad or footings for the hazmat equipment shed.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replacement apron and shed footings	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Concrete work will be performed in May of 2020.

## Project: Fire Station 3 - Replace Overhead Apparatus Bay Doors

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replacement of Overhead Doors at Fire 3.

### Project Justification

The overhead apparatus bay doors were installed during construction of the facility in 1994. The paint has faded, window panels are leaking, and repairs are not cost effective. Full replacement is recommended at this time.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replace overhead doors	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Doors will be replaced in spring of 2020.

## Project: Public Safety Center - Fire Apparatus Bay Floor Grate Repairs

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Repair of the floor grates in the Fire Apparatus Bays.

### Project Justification

The Fire Apparatus Bay floor grates are starting to show wear due to excessive rusting from salt and road chemicals. The grates are starting to delaminate and will need to be machined to fit the existing casting.

### Project Uses

	2020	2021	2022	2023	2024	Total
Repair Floor Grates	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Work will be completed during the summer of 2020.

## Project: Public Safety Center - Maintenance Walkway for Air Handler

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Installation of a maintenance walkway on the roof of the PSC.

### Project Justification

Installation of a maintenance walkway will bring us in compliance with OSHA regulations for regular maintenance activities of the air handling unit.

### Project Uses

	2020	2021	2022	2023	2024	Total
Walkway for Air Handler	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Project will be installed in the summer of 2020.

## Project: Public Safety Center - Parking Ramp Coating & Repairs

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Public Safety Center parking ramp top level coatings and concrete repairs.

### Project Justification

There are developing locations where the concrete structure is in need of repairs and several areas of the top level of the parking ramp will either need repairs or replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction & Repairs	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	20,000	0	0	0	0	20,000
<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

### Project Timeline

Work will be completed in the summer of 2020.

## Project: Public Safety Center - State Street HVAC Upgrades

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replace the building's 3 forced air furnaces and two ac condensers.

### Project Justification

These units are 15+ years old and are showing signs of fatigue. With the upgrades underway by Mayo Ambulance, the ac condensers will be relocated to the roof.

### Project Uses

	2020	2021	2022	2023	2024	Total
PSC State Street HVAC Upgrades	75,000	0	0	0	0	75,000
<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	75,000	0	0	0	0	75,000
<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>

### Project Timeline

2nd quarter - 2020



## Project: Public Safety Center - Turnout Gear Washer & Dryer

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2020 - 2020

### Project Description

Replacement of Turnout Gear Washer and Dryer.

### Project Justification

Replacement of turnout gear washer and dryer at the Public Safety Center and move equipment up to replace units at Fire Station 3 which are past their life expectancy.

### Project Uses

	2020	2021	2022	2023	2024	Total
Purchase Washer/Dryer	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Equipment will be ordered in January of 2020.

## Project: Fire Station 3 - Carpeting

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of Fire 3 main hallway carpet.

### Project Justification

The carpeting was originally installed during construction of the facility in 1994. Carpeting is showing wear and is recommended for replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Fire 3 Carpet Replacement	0	7,500	0	0	0	7,500
<b>Total</b>	<b>0</b>	<b>7,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,500</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	7,500	0	0	0	7,500
<b>Total</b>	<b>0</b>	<b>7,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,500</b>

### Project Timeline

Carpet will be replaced in spring of 2021.

## Project: Fire Station 3 - MAU Replacement

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Replacement of the Make-up Air Unit.

### Project Justification

Make-up Air Unit is out of compliance and needs to be brought up to code to meet current regulations and use. Engineering study is included to determine proper sizing for the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Engineering Study	0	10,000	0	0	0	10,000
MAU replacement	0	30,000	0	0	0	30,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

Engineering study will be conducted in January/February 2021. Installation will occur in spring of 2021.

## Project: Fire Station 3 - Parking Lot Reconstruction

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Reconstruction of the parking lot and apparatus bay exit road at Fire Station 3.

### Project Justification

The parking lot and exit road is experiencing rapid deterioration and is past the point of preventative maintenance. A full reconstruction to include select curb and gutter replacement is necessary to restore the proper drainage.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	0	70,000	0	0	0	70,000
Contingency	0	7,500	0	0	0	7,500
Design	0	2,500	0	0	0	2,500
<b>Total</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	80,000	0	0	0	80,000
<b>Total</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Project Timeline

Survey will take place in the fall of 2020.

Bidding in February of 2021.

Construction beginning in May of 2021.

## Project: Public Safety Center - Sidewalk Handrail to Upper Parking Lot

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Install handrail to upper parking lot.

### Project Justification

Installation of a handrail to the upper parking lot will reduce slips and falls in the winter season.

### Project Uses

	2020	2021	2022	2023	2024	Total
Install Handrail	0	8,000	0	0	0	8,000
<b>Total</b>	<b>0</b>	<b>8,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	8,000	0	0	0	8,000
<b>Total</b>	<b>0</b>	<b>8,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,000</b>

### Project Timeline

Handrail will be fabricated and installed in spring of 2021.

## Project: Public Safety Center, Fire Station 2 & 3 - BAS Upgrade

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2021 - 2021

### Project Description

Upgrade of the Building Automation System at each of the public safety facilities.

### Project Justification

Installation of a main control panel and necessary equipment to incorporate all of the Public Safety Facilities into the central City of Mankato Building Automation System allowing for remote monitoring and troubleshooting of the building mechanical systems.

### Project Uses

	2020	2021	2022	2023	2024	Total
Public Safety BAS Upgrades	0	90,000	0	0	0	90,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	90,000	0	0	0	90,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>

### Project Timeline

Installation will occur in winter of 2021.

## Project: Public Safety Center - Boiler Replacement

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2022 - 2022

### Project Description

Replacement of 2 Camus Boilers

### Project Justification

Boilers have reached the end of their 10 year heat exchanger warranty. They have been extremely problematic with high maintenance costs and little to no support from the manufacturer.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replace boilers	0	0	130,000	0	0	130,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	130,000	0	0	130,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Project Timeline

Boiler replacement will occur in the summer of 2022 during decreased demand.

## Project: Public Safety Center - Fire Apparatus Bay Door Refurbishment

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2022 - 2022

### Project Description

Refurbishment of the Fire Apparatus Bay doors at the Public Safety Center.

### Project Justification

The Fire Apparatus Bay doors have seen accelerated deterioration since their installation in 2012. The windows are leaking during heavy rain events and the interiors are beginning to rust. This would include refurbishment of all eleven (11) doors.

### Project Uses

	2020	2021	2022	2023	2024	Total
New Fire App Bay doors	0	0	110,000	0	0	110,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>110,000</b>	<b>0</b>	<b>0</b>	<b>110,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	110,000	0	0	110,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>110,000</b>	<b>0</b>	<b>0</b>	<b>110,000</b>

### Project Timeline

Replacement will take place in spring of 2022 when temperatures allow.



## Project: Fire Station 3 - HVAC Replacement

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

Replacement of the existing HVAC equipment at Fire 3.

### Project Justification

Replacement of the existing HVAC system at Fire 3 which is nearing the end of its life expectancy.

### Project Uses

	2020	2021	2022	2023	2024	Total
HVAC Replacement	0	0	0	80,000	0	80,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	80,000	0	80,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>80,000</b>

### Project Timeline

Bids will be solicited in the winter of 2023.

Installation will occur in the spring of 2023 during reduced demand.

## Project: Fire Station 3 - Paint Apparatus Bay Interior

Department: PUBLIC SAFETY BUILDING REPLACEMENT FUND

Project Years: 2023 - 2023

### Project Description

Interior painting of the apparatus bays at Fire Station 3.

### Project Justification

Repainting of the interior of the Apparatus Bay to improve the interior cleanliness and improve the aesthetic looks of the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Paint App Bay Interior	0	0	0	60,000	0	60,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>60,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Capital Replacement Fund	0	0	0	60,000	0	60,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>60,000</b>

### Project Timeline

Painting to take place in summer of 2023.



## Sales Tax CIP





# **SALES TAX - CIVIC CENTER**



# Cash Flow

## Projected fund balance

MSU Lease Hold	2020	2021	2022	2023	2024	2025	2026
MSU Scoreboard	\$ 955,142.06	\$ 681,445.06	\$ 543,246.06	\$ 432,979.06	\$ 503,712.06		
Sales Tax - Civic Center Capital	\$ 155,733.00	\$ 155,733.00	\$ 155,733.00	\$ 155,733.00	\$ 155,733.00		
Sales Tax - FF&E	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00		
Proposed Use - 1/2 Percent Food & Beverage - Civic Center Capital	\$ 350,000.00	\$ -	\$ -	\$ -	\$ -		
Proposed Use - 1/2 Percent Food & Beverage - FF & E	\$ 100,000.00	\$ -	\$ -	\$ -	\$ -		
Revenue Total	\$ 615,733.00	\$ 615,733.00	\$ 615,733.00	\$ 615,733.00	\$ 615,733.00		

**Available Funds** \$ 1,570,875.06 \$ 1,297,178.06 \$ 1,158,979.06 \$ 1,048,712.06 \$ 1,119,445.06

Project Name	2020	2021	2022	2023	2024	Total	Illustrative
Mankato Civic Center - Ellerbe Hall Roof Replacement	\$ (51,576.00)					\$ (51,576.00)	
Mankato Civic Center - Venue Refresh Master Plan	\$ (15,000.00)					\$ (15,000.00)	
Mankato Civic Center - Fixtures, Furniture and Equipment	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	\$ (100,000.00)	\$ (500,000.00)	
Mankato Civic Center - Cooling Tower Holding Tank	\$ (25,000.00)					\$ (25,000.00)	
Mankato Civic Center - Trash Compactor	\$ (65,000.00)					\$ (65,000.00)	
Mankato Civic Center - Arena Concourse walkway - Roof Replacement	\$ (175,854.00)					\$ (175,854.00)	
Mankato Civic Center - Rekeying of the original facility	\$ (40,000.00)					\$ (40,000.00)	
Mankato Civic Center - Fire Door Replacement	\$ (30,000.00)	\$ (30,000.00)	\$ (30,000.00)	\$ (30,000.00)	\$ (30,000.00)	\$ (150,000.00)	
Mankato Civic Center - Grand Hall Exhaust Study	\$ (15,000.00)					\$ (15,000.00)	
Mankato Civic Center - Catering Kitchen Cooling Coils	\$ (35,000.00)					\$ (35,000.00)	
Mankato Civic Center - Ceiling Tile Replacement	\$ (70,000.00)					\$ (70,000.00)	
Mankato Civic Center - Heating Fan Coils	\$ (27,000.00)					\$ (27,000.00)	
Mankato Civic Center - Escalator Chain Replacement	\$ (120,000.00)					\$ (120,000.00)	
Mankato Civic Center - Arena Upper Handrails	\$ (80,000.00)					\$ (80,000.00)	
Mankato Civic Center - Chiller Control Panel Upgrade	\$ (40,000.00)	\$ (40,000.00)				\$ (80,000.00)	
Mankato Civic Center - Turbine rebuild Chiller #1	\$ (40,000.00)					\$ (40,000.00)	
Mankato Civic Center - Building Exterior base lime stone deterioration		\$ (265,000.00)				\$ (265,000.00)	
Mankato Civic Center - Arena Lobby Roof - Roof Replacement	\$ (233,932.00)					\$ (233,932.00)	
Mankato Civic Center - Unit Heaters	\$ (30,000.00)					\$ (30,000.00)	
Mankato Civic Center - Escalator Obsolete Controller Replacement	\$ (130,000.00)					\$ (130,000.00)	
Mankato Civic Center - Grand Hall Exhaust & Arena Dry Coolers	\$ (150,000.00)					\$ (150,000.00)	
Mankato Civic Center - Banquet Hall Partition Wall			\$ (90,000.00)			\$ (90,000.00)	
Mankato Civic Center - Restroom Refresh					\$ -	\$ (250,000.00)	
Mankato Civic Center - Banquet Hall Carpet Replacement		\$ (175,000.00)				\$ (175,000.00)	
Mankato Civic Center - Banquet Hall Lighting Controls			\$ (125,000.00)			\$ (125,000.00)	
Mankato Civic Center - Arena EIFS - Painting						\$ -	\$ (400,000.00)
Mankato Civic Center - Air Cooling Towers			\$ (200,000.00)			\$ (200,000.00)	
Mankato Civic Center - Seating Replacement Banquet Hall			\$ (156,000.00)			\$ (156,000.00)	
Mankato Civic Center - Arena - Roof Replacement					\$ -	\$ (850,000.00)	
Mankato Civic Center - Ice Plant Replacement					\$ -	\$ (1,500,000.00)	
Mankato Civic Center - Boiler Replacement					\$ -	\$ (1,200,000.00)	
Phase 2 - Locker Room Expansion & Commissary					\$ -	\$ (400,000.00)	
<b>Total</b>	<b>\$ (889,430.00)</b>	<b>\$ (753,932.00)</b>	<b>\$ (726,000.00)</b>	<b>\$ (545,000.00)</b>	<b>\$ (130,000.00)</b>	<b>\$ (3,044,362.00)</b>	<b>\$ (4,600,000.00)</b>

**Fund Balance** \$ 681,445.06 \$ 543,246.06 \$ 432,979.06 \$ 503,712.06 \$ 989,445.06

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Civic Center - Arena Concourse Walkway - Roof Replacement	2020	175,854
Mankato Civic Center - Arena Upper Handrails	2020	80,000
Mankato Civic Center - Catering Kitchen Cooling Coils	2020	35,000
Mankato Civic Center - Ceiling Tile Replacement	2020	70,000
Mankato Civic Center - Chiller Control Panel Upgrade	2020	40,000
Mankato Civic Center - Cooling Tower Holding Tank	2020	25,000
Mankato Civic Center - Ellerbe Hall Roof Replacement	2020	51,576
Mankato Civic Center - Escalator Chain Replacement	2020	120,000
Mankato Civic Center - Fire Door Replacement	2020	30,000
Mankato Civic Center - Fixtures, Furniture, and Equipment	2020	100,000
Mankato Civic Center - Grand Hall Exhaust Study	2020	15,000
Mankato Civic Center - Heating Fan Coils	2020	27,000
Mankato Civic Center - Rekeying of the Original Facility	2020	40,000
Mankato Civic Center - Venue Refresh Master Plan	2020	15,000
Mankato Civic Center Trash Compactor	2020	65,000
<b>Subtotal</b>		<b>889,430</b>
<b>Total</b>		<b>889,430</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Civic Center - Arena Lobby - Roof Replacement	2021	233,932
Mankato Civic Center - Chiller Control Panel Upgrade	2021	40,000
Mankato Civic Center - Escalator Obsolete Controller Replacement	2021	130,000
Mankato Civic Center - Fire Door Replacement	2021	30,000
Mankato Civic Center - Fixtures, Furniture, and Equipment	2021	100,000
Mankato Civic Center - Grand Hall Exhaust & Arena Dry Coolers	2021	150,000
Mankato Civic Center - Turbine Rebuild Chiller #1	2021	40,000
Mankato Civic Center - Unit Heaters	2021	30,000
<b>Subtotal</b>		<b>753,932</b>
<b>Total</b>		<b>753,932</b>



## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Civic Center - Banquet Hall Carpet Replacement	2022	175,000
Mankato Civic Center - Building Exterior Base Limestone Deterioration	2022	265,000
Mankato Civic Center - Fire Door Replacement	2022	30,000
Mankato Civic Center - Fixtures, Furniture, and Equipment	2022	100,000
Mankato Civic Center - Seating Replacement Banquet Hall	2022	156,000
<b>Subtotal</b>		<b>726,000</b>
<b>Total</b>		<b>726,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Civic Center - Banquet Hall Lighting Controls	2023	125,000
Mankato Civic Center - Banquet Hall Partition Wall	2023	90,000
Mankato Civic Center - Fire Door Replacement	2023	30,000
Mankato Civic Center - Fixtures, Furniture, and Equipment	2023	100,000
Mankato Civic Center Air Cooling Towers	2023	200,000
<b>Subtotal</b>		<b>545,000</b>
<b>Total</b>		<b>545,000</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Mankato Civic Center - Fire Door Replacement	2024	30,000
Mankato Civic Center - Fixtures, Furniture, and Equipment	2024	100,000
<b>Subtotal</b>		<b>130,000</b>
<b>Total</b>		<b>130,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Mankato Civic Center - Arena - Roof Replacement	850,000
Mankato Civic Center - Arena EIFS - Painting	400,000
Mankato Civic Center - Boiler Replacement	1,200,000
Mankato Civic Center - Ice Plant Replacement	1,500,000
Mankato Civic Center - Restroom Refresh	250,000
Phase 2 - Locker Room Expansion and Commissary	400,000
<b>Subtotal</b>	<b>4,600,000</b>
<b>Total</b>	<b>4,600,000</b>

## Project: Mankato Civic Center - Arena Concourse Walkway - Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

The arena concourse roofs have seen rapid deterioration in the last year. Several major leaks have developed during Spring of 2019 and emergency repairs have been made. Replacement is needed to maintain facility readiness for events in the Arena.

### Project Justification

These roofs were installed in 1995 and are 7 years over their life expectancy. The 12,561 square foot roof cost if figured at \$14 per square foot for a 30 year roof. Recommend replacement in 2020.

### Project Uses

	2020	2021	2022	2023	2024	Total
Civic Center Improvements	175,854	0	0	0	0	175,854
<b>Total</b>	<b>175,854</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,854</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	175,854	0	0	0	0	175,854
<b>Total</b>	<b>175,854</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,854</b>

### Project Timeline

2nd quarter - 2020

## Project: Mankato Civic Center - Arena Upper Handrails

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Installation of handrails in the Arena seating bowl

### Project Justification

At the time of the original construction, handrails were not required in the upper arena. The city has received several requests from attendees that handrails should be installed to make ingress and egress safer

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	80,000	0	0	0	0	80,000
Total	80,000	0	0	0	0	80,000

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	80,000	0	0	0	0	80,000
Total	80,000	0	0	0	0	80,000

### Project Timeline

Installation Summer 2020

## Project: Mankato Civic Center - Catering Kitchen Cooling Coils

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the catering kitchen cooling coils

### Project Justification

Due to the required exhaust and air flow in a kitchen of this size, a supplemental cooling system is required to keep the space comfortable during large events. The current coil has been inoperable for many years and the space can get very warm during large events. Replacement is recommended to keep the facility and other equipment from experiencing accelerated deterioration.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	35,000	0	0	0	0	35,000
<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

1st Quarter of 2020

## Project: Mankato Civic Center - Ceiling Tile Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

The ceiling tiles throughout the arena and concourses are original to the 1995 construction of the facility.

### Project Justification

A refresh of the tiles is needed as it is difficult to find matching replacements and renting a large lift is required to replace tiles in the arena.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	70,000	0	0	0	0	70,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	70,000	0	0	0	0	70,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

Summer 2020

## Project: Mankato Civic Center - Chiller Control Panel Upgrade

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2021

### Project Description

Installation of new control Panels for Chillers 1 and 2

### Project Justification

The control panels for Chillers 1 and 2 in the 1995 portion of the building are no longer serviceable by the manufacturer. They have reached the end of their life expectancy and parts are very hard to locate. To ensure uninterrupted operation of the HVAC system, replacement is recommended.

### Project Uses

	2020	2021	2022	2023	2024	Total
Control Panel Replacement	40,000	40,000	0	0	0	80,000
<b>Total</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	40,000	40,000	0	0	0	80,000
<b>Total</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>

### Project Timeline

1st Quarter of 2020

## Project: Mankato Civic Center - Cooling Tower Holding Tank

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Installation of holding tank for chiller water

### Project Justification

Installation of a holding tank for the Arena Chillers to allow year around use of the system

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

1st Quarter of 2020

## Project: Mankato Civic Center - Ellerbe Hall Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the roof on the Ellerbe Room with a 30 year fully adhered EPDM membrane. A grant application will be submitted to the MN Historical Society for a 50/50 matching grant.

### Project Justification

This roof was installed in 1995 and is 7 years over its life expectancy. The roof is in need to repairs due to the EPDM membrane no longer being adhered to the roof deck along the East side of the roof near the flashing.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	51,576	0	0	0	0	51,576
<b>Total</b>	<b>51,576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51,576</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	51,576	0	0	0	0	51,576
<b>Total</b>	<b>51,576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51,576</b>

### Project Timeline

Project to be completed in Summer/Fall of 2020



## Project: Mankato Civic Center - Escalator Chain Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the escalator chains

### Project Justification

The escalators are original to the facility and are in need of replacement. The chains are at the end of their life expectancy and are generating excessive noise. Replacement is recommended to keep them in operation.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	120,000	0	0	0	0	120,000
<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

### Project Timeline

Work to be completed in Summer 2020

## Project: Mankato Civic Center - Fire Door Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2024

### Project Description

Multi-year project to replace the aging fire doors within the facility

### Project Justification

The fire doors throughout the original facility are beginning to fail as normal wear and tear has taken its toll. These doors see considerable use and need to be kept in good condition to maintain their fire rating. A needs based multi year approach will be undertaken to fund the complete replacement of the original 1995 doors throughout the facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	30,000	30,000	30,000	30,000	30,000	150,000
<b>Total</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>150,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	30,000	30,000	30,000	30,000	30,000	150,000
<b>Total</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>150,000</b>

### Project Timeline

Summer 2020

## Project: Mankato Civic Center - Fixtures, Furniture, and Equipment

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2024

### Project Description

This is funding set aside for various furniture, fixtures, and smaller projects that may arise during the year

### Project Justification

As the original portion of the building ages, the furniture and fixtures that were purchased with the original construction continue to wear out and require replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
FF&E Replacement	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	100,000	100,000	100,000	100,000	100,000	500,000
<b>Total</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>

### Project Timeline

Throughout Fiscal Year

## Project: Mankato Civic Center - Grand Hall Exhaust Study

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Engineering study to determine feasibility of adding a mechanical exhaust system in the Grand Hall

### Project Justification

During construction of the Grand Hall addition, the design called for no mechanical exhaust system. The original design is to ramp up the mechanical system to pressurize the building which will then open vents in the air handler to exhaust the air. However, this will only work when every door in the Grand Hall is closed to build the required pressure for the system to work effectively. Ultimately, this is not possible during most events and a mechanical means of exhaust is necessary to continue to hold large events in this space.

### Project Uses

	2020	2021	2022	2023	2024	Total
Study Execution	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

January to April 2020

## Project: Mankato Civic Center - Heating Fan Coils

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the Vestibule Heating Fan Coils

### Project Justification

Replacement is needed on 6 units located in the Arena vestibules to ensure the sprinkler system does not freeze during the winter months. Expecting the need to replace additional Heating Fan Coils in coming years.

### Project Uses

	2020	2021	2022	2023	2024	Total
Replacement of Heating Fan Coils	27,000	0	0	0	0	27,000
<b>Total</b>	<b>27,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	27,000	0	0	0	0	27,000
<b>Total</b>	<b>27,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27,000</b>

### Project Timeline

Summer 2020

## Project: Mankato Civic Center - Rekeying of the Original Facility

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the Key system and lock sets throughout the original facility

### Project Justification

As the original portion of the building ages, the original lock sets and door hardware are requiring excessive amounts of maintenance. A comprehensive replacement of the key system and lock sets is recommended to ensure uninterrupted service and reduce maintenance costs.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	40,000	0	0	0	0	40,000
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	40,000	0	0	0	0	40,000
<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

Summer/Fall 2020

## Project: Mankato Civic Center - Venue Refresh Master Plan

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Consultation on a "Venue Refresh" for the 1995 portions of the building. We would like to "refresh" the original portion of the building to keep it relevant and up to the expectation of our renters and guests. Key phases of the refresh would include cosmetic remodeling to the arena restrooms, carpet replacement in the banquet hall, reception hall, original meeting rooms and second floor hallways and corridor to the skyway, updated banquet hall seating, general decor updates and focal features, and update the concourse flooring.

### Project Justification

To remain relevant and ensure that our building is an inviting space, where people want to spend their time, it is necessary to ensure that the building is not only structurally sound but also a visually appealing place to be. In order to stay on pace with modern design and patron expectations updates are necessary. A consultant specializing in these types of updates will be guiding the refresh to ensure that the most effective updates are made.

### Project Uses

	2020	2021	2022	2023	2024	Total
Venue Refresh Master Plan	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	15,000	0	0	0	0	15,000
<b>Total</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,000</b>

### Project Timeline

Study to be completed in spring of 2020.

## Project: Mankato Civic Center Trash Compactor

Department: SALES TAX - CIVIC CENTER

Project Years: 2020 - 2020

### Project Description

Replacement of the Civic Center Trash Compactor and develop a Recycling Center.

### Project Justification

This compactor was installed in 1996 when the Civic Center was built. It has seen several structural and mechanical repairs in the past 5 years, the main structure unit continues to deteriorate and the mechanical equipment and controls have exceeded their life expectancy.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	65,000	0	0	0	0	65,000
<b>Total</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	65,000	0	0	0	0	65,000
<b>Total</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>

### Project Timeline

The unit can be ordered in January and installed during the Civic Center summer months when most of the larger events are the Riverfront Park.



## Project: Mankato Civic Center - Arena Lobby - Roof Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

Replacement of the Arena Lobby Roof with a 30 year fully adhered roof.

### Project Justification

The arena Lobby roof has experienced multiple leaking issues, six related to flashing and membrane failures and three directly connected to EIFS caulking and/or flashing problems. This roof were installed in 1995 and are 7 years over their life expectancy. The 16,678 Sqft roof Cost figured at \$14 per square foot for a 30 yr. roof.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	233,932	0	0	0	233,932
<b>Total</b>	<b>0</b>	<b>233,932</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233,932</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	233,932	0	0	0	233,932
<b>Total</b>	<b>0</b>	<b>233,932</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233,932</b>

### Project Timeline

Summer/Fall of 2021

## Project: Mankato Civic Center - Escalator Obsolete Controller Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

Update the two escalator controller equipment in the front lobby of the Civic Center.

### Project Justification

The two escalators in the front lobby of the Civic Center still have the original mechanical relay control equipment. Replacement parts are no longer being manufactured and even though after market parts are still available, facilities staff is recommending the upgrade of these controllers to solid state equipment. The 2018 replacement cost is \$54,750 for each escalator.

### Project Uses

	2020	2021	2022	2023	2024	Total
Escalator Obsolete Controller Replacement	0	130,000	0	0	0	130,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	130,000	0	0	0	130,000
<b>Total</b>	<b>0</b>	<b>130,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130,000</b>

### Project Timeline

N/A

## Project: Mankato Civic Center - Grand Hall Exhaust & Arena Dry Coolers

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

Installation of mechanical exhaust for the Grand Hall and Dry Coolers for the Arena

### Project Justification

The Grand Hall is lacking a mechanical exhaust system for proper air ventilation during large events. The arena could benefit from installation of a dry cooling system to help control temperatures in the swing seasons and during large events over the winter months. The chillers are unable to operate when temperatures outside are below freezing and the dry cooler would allow us to cool the arena during the winter months when large crowds can cause the temperature in the arena to rise to uncomfortable levels and interfere with ice conditions.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	150,000	0	0	0	150,000
<b>Total</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

### Project Timeline

Fall of 2021

## Project: Mankato Civic Center - Turbine Rebuild Chiller #1

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

Rebuild of the turbine on Chiller #1

### Project Justification

Major maintenance on the turbine in Chiller #1 is past due. The chance of catastrophic failure rises without a major rebuild of the turbine unit.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

1st Quarter of 2021

## Project: Mankato Civic Center - Unit Heaters

Department: SALES TAX - CIVIC CENTER

Project Years: 2021 - 2021

### Project Description

There are 24 unit heaters that have small leaks and need replacement.

### Project Justification

Unit heaters will eventually fail.

### Project Uses

	2020	2021	2022	2023	2024	Total
Civic Center Improvements	0	30,000	0	0	0	30,000
<b>Total</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	30,000	0	0	0	30,000
<b>Total</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000</b>

### Project Timeline

2nd quarter - 2021

## Project: Mankato Civic Center - Banquet Hall Carpet Replacement

Department: SALES TAX - CIVIC CENTER

Project Years: 2022 - 2022

### Project Description

Replacement of the 1995 Carpeting in the Banquet Hall

### Project Justification

The carpeting was originally installed during construction of the facility in 1995. Carpeting is showing wear and is recommended for replacement.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	0	175,000	0	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	175,000	0	0	175,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

Fall 2022

## Project: Mankato Civic Center - Building Exterior Base Lime-stone Deterioration

Department: SALES TAX - CIVIC CENTER

Project Years: 2022 - 2022

### Project Description

The 147 base stone surrounds the original portion of the Arena and Ballroom is failing and needs to be upgraded. The current recommendation is to replace the lime stone with colored concrete panels.

### Project Justification

These lime stone panels are structural support for brick and stone that is above them. A failure will likely cause severe damage to rest of the building facade.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	0	265,000	0	0	265,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>265,000</b>	<b>0</b>	<b>0</b>	<b>265,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	265,000	0	0	265,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>265,000</b>	<b>0</b>	<b>0</b>	<b>265,000</b>

### Project Timeline

Summer 2022

## Project: Mankato Civic Center - Seating Replacement Banquet Hall

Department: SALES TAX - CIVIC CENTER

Project Years: 2022 - 2022

### Project Description

Replacement of 1000 chairs for use throughout the facility

### Project Justification

Current banquet chair inventory is still original to the building. They are becoming thread bare and are in constant need of maintenance to repair broken welds. In addition, the color no longer matches upgrades to the banquet facilities that have been made over the last 23 years.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	0	156,000	0	0	156,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>156,000</b>	<b>0</b>	<b>0</b>	<b>156,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	156,000	0	0	156,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>156,000</b>	<b>0</b>	<b>0</b>	<b>156,000</b>

### Project Timeline

Spring 2023



## Project: Mankato Civic Center - Banquet Hall Lighting Controls

Department: SALES TAX - CIVIC CENTER

Project Years: 2023 - 2023

### Project Description

Banquet Hall Lighting Controls Replacement

### Project Justification

The lighting control system is original to the construction of the facility. Upgrades are needed to continue to offer a first class facility.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	0	0	125,000	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>125,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	0	125,000	0	125,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,000</b>	<b>0</b>	<b>125,000</b>

### Project Timeline

1st Quarter 2022

## Project: Mankato Civic Center - Banquet Hall Partition Wall

Department: SALES TAX - CIVIC CENTER

Project Years: 2023 - 2023

### Project Description

Replacement of the movable partition wall located in the Banquet Hall

### Project Justification

The partition wall in the Banquet Hall is original to the 1995 construction. Maintenance costs are increasing every year and the deployment of the wall is necessary for many events held in the space.

### Project Uses

	2020	2021	2022	2023	2024	Total
Project Execution	0	0	0	90,000	0	90,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>90,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	0	90,000	0	90,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>90,000</b>

### Project Timeline

Summer/Fall 2022

## Project: Mankato Civic Center Air Cooling Towers

Department: SALES TAX - CIVIC CENTER

Project Years: 2023 - 2023

### Project Description

Replacement of the existing air cooling towers for the existing 400 ton chilled water compressors.

### Project Justification

These units were installed in 1995 and are 3 years over their life expectancy. There are numerous signs of pending failure, pipe fittings leaking, housing connections leaking, regular non routine bearing and belt noises, drive pulley alignment issues. There two separate units and it may be possible to replace these over a two year period after the new 100 ton unit is installed in fall of 2018 as part of the Ameresco upgrades.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construction	0	0	0	194,500	0	194,500
Engineering	0	0	0	3,500	0	3,500
Project Management	0	0	0	2,000	0	2,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>200,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	0	200,000	0	200,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>200,000</b>

### Project Timeline

Work would be best complete in the fall when the main chillers are shut down.





## **SALES TAX - AIRPORT**



## Cash Flow

### Airport

	2020	2021	2022	2023
Projected fund balance	\$ 876,000.00	\$ 658,600.00	\$ 172,600.00	\$ (144,400.00)
Revenue	\$100,000	\$100,000	\$100,000	\$100,000

**Available Funds** \$ 976,000.00 \$ 758,600.00 \$ 272,600.00 \$ (44,400.00)

Project Name	2020	2021	2022	2023	Total
Acquire Airport Maintenance Vehicle					\$ (21,000.00)
Acquire Airport Mower	\$ (21,000.00)	\$ (21,000.00)			\$ (21,000.00)
Acquire ARFF Vehicle/Equipment					\$ (39,900.00)
Acquire Snowblower	\$ (39,900.00)			\$ (25,000.00)	\$ (25,000.00)
Airport - Runway 15 Safety Area					\$ -
ARFF - SRE Building Construction	\$ (120,000.00)	\$ (180,000.00)	\$ -		\$ (303,000.00)
Airport Fuel Farm Replacement	\$ (25,000.00)		\$ (3,000.00)		\$ (25,000.00)
Benefit-Cost Analysis for Control Tower					\$ (27,000.00)
Construct D2 Apron Connector Taxiway	\$ (7,000.00)	\$ (20,000.00)			\$ (27,000.00)
Construct D3 Apron Connector Taxiway	\$ (76,500.00)	\$ (50,000.00)			\$ (126,500.00)
Construct Taxiway B2 Connector	\$ (9,000.00)	\$ (50,000.00)			\$ (59,000.00)
Construct T-Hangar				\$ (120,000.00)	\$ (120,000.00)
Construct Wildlife/Security Fencing & Perimeter Road				\$ (75,000.00)	\$ (75,000.00)
Design T-Hangar				\$ (22,500.00)	\$ (22,500.00)
Expand General Aviation Apron		\$ (9,000.00)	\$ (45,000.00)		\$ (54,000.00)
Expand Runway 15/33 Holding Bays	\$ (15,000.00)	\$ (205,000.00)	\$ (65,000.00)		\$ (285,000.00)
Install Runway 15 Approach Lighting System			\$ (120,000.00)		\$ (120,000.00)
Rehabilitate Runway 15-33	\$ (5,000.00)	\$ (5,000.00)			\$ (10,000.00)
Rehabilitate Taxiway A & B Remainders	\$ (3,000.00)	\$ (40,000.00)			\$ (43,000.00)
Rehabilitate Taxiways D, E		\$ (12,000.00)	\$ (65,000.00)		\$ (77,000.00)
Relocate Airport Beacon				\$ (1,750.00)	\$ (1,750.00)
Remove Taxiway C	\$ (3,000.00)	\$ (7,000.00)			\$ (10,000.00)
Repair Existing T-Hangars				\$ (81,000.00)	\$ (81,000.00)
Site Prep - MSU Aircraft Hangar			\$ (99,000.00)		\$ (99,000.00)
Update Airport Master Plan / ALP				\$ (7,500.00)	\$ (7,500.00)
<b>Total</b>	<b>\$ (317,400.00)</b>	<b>\$ (586,000.00)</b>	<b>\$ (417,000.00)</b>	<b>\$ (332,750.00)</b>	<b>\$ (1,653,150.00)</b>
<b>Fund Balance</b>	<b>\$ 658,600.00</b>	<b>\$ 172,600.00</b>	<b>\$ (144,400.00)</b>	<b>\$ (377,150.00)</b>	

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire Airport Mower	2020	70,000
Acquire Snowblower	2020	133,000
airport runway 15	2020	400,000
Benefit-Cost Analysis for Control Tower	2020	50,000
Construct D3 Apron Connector Taxiway	2020	85,000
Construct Taxiway B2 Connector	2020	90,000
Expand Runway 15/33 Holding Bays	2020	150,000
Rehabilitate Runway 15-33	2020	50,000
Rehabilitate Taxiway A & B Remainders	2020	30,000
Remove Taxiway C	2020	30,000
<b>Subtotal</b>		<b>1,088,000</b>
<b>Total</b>		<b>1,088,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Acquire Airport Maintenance Vehicle	2021	70,000
airport runway 15	2021	600,000
Construct D2 Apron Connector Taxiway	2021	70,000
Construct D3 Apron Connector Taxiway	2021	500,000
Construct Taxiway B2 Connector	2021	500,000
Expand General Aviation Apron	2021	90,000
Expand Runway 15/33 Holding Bays	2021	2,050,000
Rehabilitate Runway 15-33	2021	50,000
Rehabilitate Taxiway A & B Remainders	2021	400,000
Rehabilitate Taxiways D, E	2021	120,000
Remove Taxiway C	2021	70,000
<b>Subtotal</b>		<b>4,520,000</b>
<b>Total</b>		<b>4,520,000</b>



## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
airport runway 15	2022	60,000
ARFF - SRE Building Construction	2022	2,000,000
Construct D2 Apron Connector Taxiway	2022	400,000
Expand General Aviation Apron	2022	900,000
Expand Runway 15/33 Holding Bays	2022	650,000
Rehabilitate Taxiways D, E	2022	1,300,000
Site Prep - MSU Aircraft Hangar	2022	330,000
<b>Subtotal</b>		<b>5,640,000</b>
<b>Total</b>		<b>5,640,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Construct Wildlife/Security Fencing & Perimeter Road	2023	1,500,000
Design T-Hangar	2023	75,000
Relocate Airport Beacon	2023	35,000
Update Airport Master Plan / ALP	2023	150,000
<b>Subtotal</b>		<b>1,760,000</b>
<b>Total</b>		<b>1,760,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Airport - Runway 15 Safety Area	500,000
Construct T-Hangar	600,000
Install Runway 15 Approach Lighting System	400,000
Repair Existing T-Hangars	270,000
<b>Subtotal</b>	<b>1,770,000</b>
<b>Total</b>	<b>1,770,000</b>

## Project: Acquire Airport Mower

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

## Project Description

Purchase replacement Airport Trim Mower

## Project Justification

Current JD1600 mower was purchased in 2006 and is subject to high breakdown and maintenance costs.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Acquire Airport Trim Mower	70,000	0	0	0	0	70,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	21,000	0	0	0	0	21,000
MnDOT	49,000	0	0	0	0	49,000
<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

## Project Timeline

2020 - Pending State Grant

## Project: Acquire Snowblower

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

## Project Description

Acquire a Large Snowblower.

## Project Justification

Acquire a Large Runway/Taxiway/Apron Snowblower to supplement 1990's vintage Oshkosh snowblower.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Acquire snowblower	133,000	0	0	0	0	133,000
<b>Total</b>	<b>133,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>133,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	39,900	0	0	0	0	39,900
MnDOT	93,100	0	0	0	0	93,100
<b>Total</b>	<b>133,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>133,000</b>

## Project Timeline

2021 - Purchase equipment

## Project: airport runway 15

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2022

### Project Description

Fuel Farm - Replace underground storage tanks: This project will replace the existing underground Jet Fuel and Aviation Fuel storage tanks with new above ground tanks. The location of the Fuel Farm would be relocated away from the main aircraft parking area for safety and to allow the MSU aviation aircraft parking area to expand.

### Project Justification

The currently fuel tanks were installed in 1992 and have a 30 year replacement date (the tanks are monitored for leakage and are not leaking, but still must be replaced). The airport uses over 500,000 gallons of fuel per year to service aircraft and without fuel these aircraft would not be allowed to fly from Mankato, decreasing airport operations and revenue. Project is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

CIP Outreach and the Annual Open House

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct Fueling Apron	400,000	0	0	0	0	400,000
Construct Fueling Facility	0	600,000	0	0	0	600,000
Remove Fuel Facility (Existing)	0	0	60,000	0	0	60,000
<b>Total</b>	<b>400,000</b>	<b>600,000</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>1,060,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	120,000	180,000	3,000	0	0	303,000
FAA	0	0	54,000	0	0	54,000
MnDOT	280,000	420,000	3,000	0	0	703,000
<b>Total</b>	<b>400,000</b>	<b>600,000</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>1,060,000</b>

## Project Timeline

Fall 2020 - Potential grant award from MNDOT. Spring 2021 - Design project and request bids.  
Summer 2021 - Replacement fuel farm construction.

## Project: Benefit-Cost Analysis for Control Tower

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2020

### Project Description

Control Tower - Benefit-Cost Analysis for Control Tower

### Project Justification

Cost analysis to determine eligibility for FAA control tower to accommodate increased air traffic at the airport.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Control Tower B/CA Study	50,000	0	0	0	0	50,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	25,000	0	0	0	0	25,000
MnDOT	25,000	0	0	0	0	25,000
<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>

### Project Timeline

2020

## Project: Construct D3 Apron Connector Taxiway

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2021

### Project Description

Construct Apron Connector Taxiway from B to the MSU apron.

### Project Justification

Required for two-way entrance/exit capacity from MSU Aviation growth and loss of Taxiway C in 2020.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct Apron Connector Taxiway	0	500,000	0	0	0	500,000
Design Connector Taxiway	85,000	0	0	0	0	85,000
<b>Total</b>	<b>85,000</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>585,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	76,500	50,000	0	0	0	126,500
FAA	8,500	450,000	0	0	0	458,500
<b>Total</b>	<b>85,000</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>585,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Construct Taxiway B2 Connector

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2021

### Project Description

Taxiway B2 Connector: Construct a new taxiway entrance to Runway 04/22.

### Project Justification

Taxiway B2 Connector: This taxiway would allow aircraft to more efficiently enter and exit the runway, thereby increasing the capacity of the existing runway, especially for MSU aircraft.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct Taxiway B2	0	500,000	0	0	0	500,000
Construct Taxiway B2 (Design)	90,000	0	0	0	0	90,000
<b>Total</b>	<b>90,000</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>590,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	9,000	50,000	0	0	0	59,000
FAA	81,000	450,000	0	0	0	531,000
<b>Total</b>	<b>90,000</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>590,000</b>

### Project Timeline

Fall 2019 - Potential grant award from FAA. Spring 2020 - Design project and request bids. Summer 2020 - Taxiway B2 construction.



## Project: Expand Runway 15/33 Holding Bays

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2022

### Project Description

Expand Runway 15/33 Holding Bays to accommodate MSU Aircraft (2021)

Construct new holding Bays on Runway 4 (2021) and Runway 22 (2022 - when justified)

### Project Justification

Expand holding bays at the end of runways to accommodate MSU aviation growth

Project significantly increased in cost due to FAA requirement to accommodate larger jet aircraft in the holding bays.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct Holding Bays Runway 15, 33, 22	0	2,000,000	0	0	0	2,000,000
Construct Holding Bays Runway 4	0	0	650,000	0	0	650,000
Design Holding Bays Runway 15, 33, 22	150,000	0	0	0	0	150,000
Design Holding Bays Runway 4	0	50,000	0	0	0	50,000
<b>Total</b>	<b>150,000</b>	<b>2,050,000</b>	<b>650,000</b>	<b>0</b>	<b>0</b>	<b>2,850,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	15,000	205,000	65,000	0	0	285,000
FAA	135,000	1,845,000	585,000	0	0	2,565,000
<b>Total</b>	<b>150,000</b>	<b>2,050,000</b>	<b>650,000</b>	<b>0</b>	<b>0</b>	<b>2,850,000</b>

### Project Timeline

2020-2022

## Project: Rehabilitate Runway 15-33

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2021

### Project Description

Rehab concrete on Runway 15-33 (Crack Seal)

### Project Justification

Asset Preservation -- Runway was constructed in 2007 and requires periodic crack sealing to prevent water intrusion and pavement damage.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Rehab Runway 15-33	50,000	50,000	0	0	0	100,000
<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	5,000	5,000	0	0	0	10,000
FAA	45,000	45,000	0	0	0	90,000
<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

2020-2021

## Project: Rehabilitate Taxiway A & B Remainders

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2021

### Project Description

Rehabilitate Taxiway A and B Remainders (Mill and Overlay). Mill and overlay pavement on Taxiways A and B.

### Project Justification

Taxiway Maintenance - Pavement condition is deteriorating and subject to water intrusion.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Design - Rehabilitate Taxiway A & B	30,000	0	0	0	0	30,000
Rehabilitate Taxiway A & B	0	400,000	0	0	0	400,000
<b>Total</b>	<b>30,000</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>430,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	3,000	40,000	0	0	0	43,000
FAA	27,000	360,000	0	0	0	387,000
<b>Total</b>	<b>30,000</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>430,000</b>

### Project Timeline

2020

## Project: Remove Taxiway C

Department: SALES TAX - AIRPORT

Project Years: 2020 - 2021

### Project Description

Removal of existing Taxiway C

### Project Justification

Removal of existing Taxiway C is required by the FAA due to non-standard design which contributes to runway incursions.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Design - Remove Taxiway C	30,000	0	0	0	0	30,000
Remove Taxiway C	0	70,000	0	0	0	70,000
<b>Total</b>	<b>30,000</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	3,000	7,000	0	0	0	10,000
FAA	27,000	63,000	0	0	0	90,000
<b>Total</b>	<b>30,000</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2019 - 2020 - Final Design

Summer 2020 - Construction

## Project: Acquire Airport Maintenance Vehicle

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2021

### Project Description

Purchase replacement airport maintenance vehicle (Medium Duty Pickup with Plow).

### Project Justification

The current airport maintenance truck will reach the end of its useful life in 2020. This vehicle is used for daily airport field inspections, building maintenance and airport street snow plowing in the winter. Current vehicle was purchased new in 2007 and will have approximately 90,000 miles on it in 2020. Project is dependent on grants from the FAA and/or MnDOT.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Maintenance Vehicle	0	70,000	0	0	0	70,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	21,000	0	0	0	21,000
MnDOT	0	49,000	0	0	0	49,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

### Project Timeline

Fall 2019 - Potential grant award from MNDOT. Spring 2020 - Request bids and purchase vehicle.

## Project: Construct D2 Apron Connector Taxiway

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2022

### Project Description

Design and Construct Taxiway D2 - Apron Connector Taxiway

### Project Justification

This taxiway project will connect the T-Hangar area, Fuel Farm and MSU apron to taxiway B, increasing the ability for aircraft to taxi in this congested area.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct Taxiway D2	0	0	400,000	0	0	400,000
Construct Taxiway D2 - Design	0	70,000	0	0	0	70,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>470,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	7,000	20,000	0	0	27,000
FAA	0	63,000	360,000	0	0	423,000
MnDOT	0	0	20,000	0	0	20,000
<b>Total</b>	<b>0</b>	<b>70,000</b>	<b>400,000</b>	<b>0</b>	<b>0</b>	<b>470,000</b>

### Project Timeline

2019 - Preliminary Design

Winter 2020 - Final Design

Summer 2021 - Construction

## Project: Expand General Aviation Apron

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2022

### Project Description

Expand MSU aviation apron and restripe the main apron.

### Project Justification

Expansion of the Minnesota State University aviation apron to accommodate program growth and replace lost aircraft parking spaces on the main apron due to the runway visibility zone issue.

### Engagement Strategy

#### ***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

#### ***City projects, including sales tax items***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Construct Apron Expansion	0	0	900,000	0	0	900,000
Design - Construct Apron Expansion	0	90,000	0	0	0	90,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>990,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	9,000	45,000	0	0	54,000
FAA	0	81,000	810,000	0	0	891,000
MnDOT	0	0	45,000	0	0	45,000
<b>Total</b>	<b>0</b>	<b>90,000</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>990,000</b>

## Project Timeline

2021 - Design - Linked to removal of existing fuel farm and construction of new fuel farm. (This apron is proposed on the site of the existing fuel farm)

2020 - Construction



## Project: Rehabilitate Taxiways D, E

Department: SALES TAX - AIRPORT

Project Years: 2021 - 2022

### Project Description

Taxiway Maintenance - Rehabilitate Taxiways D, E (Mill and Overlay)

Reconstruct Taxiway D (Widen in T-Hangar area)

### Project Justification

Mill and overlay pavement of Taxiways D and E - Pavement preservation

Reconstruction of Taxiway D - extra width need to accommodate aircraft as they depart the t-hangar area and new fuel farm

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Design - Rehabilitate Taxiway E	0	30,000	0	0	0	30,000
Design - Widen Taxiway D	0	90,000	0	0	0	90,000
Reconstruct-Widen Taxiway D	0	0	800,000	0	0	800,000
Rehabilitate Taxiways D, E	0	0	500,000	0	0	500,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>1,300,000</b>	<b>0</b>	<b>0</b>	<b>1,420,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	12,000	65,000	0	0	77,000
FAA	0	108,000	1,170,000	0	0	1,278,000
MnDOT	0	0	65,000	0	0	65,000
<b>Total</b>	<b>0</b>	<b>120,000</b>	<b>1,300,000</b>	<b>0</b>	<b>0</b>	<b>1,420,000</b>

### Project Timeline

2021-2022

## Project: ARFF - SRE Building Construction

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Construct ARFF/SRE Building

### Project Justification

Reconstruct Airport Rescue Fire Fighting (ARFF) and Snow Removal Equipment (SRE) building. Current building is functionally obsolete with bays that will not accommodate airport maintenance equipment and fire truck. Current building has 4 equipment bays. Airport has 6 large equipment pieces (2 Snowplows, 1 Snowblower, 1 Firetruck, 2 Tractors) and several smaller (Bobcat and Mowers). This results in equipment being stored 1/2 mile way in aircraft hangars. Results in reduced hangar revenue and inefficient operations. Proposed State Bonding Funds for project.

### Project Uses

	2020	2021	2022	2023	2024	Total
Construct ARFF/SRE Building	0	0	2,000,000	0	0	2,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
State Bonding	0	0	2,000,000	0	0	2,000,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>

### Project Timeline

2020-2022? Depending on State Bonding

## Project: Site Prep - MSU Aircraft Hangar

Department: SALES TAX - AIRPORT

Project Years: 2022 - 2022

### Project Description

Site Prep for new 40,000 privately funded hangar for MSU Aviation Aircraft

### Project Justification

Airport is currently 100% occupied for heated hangar space. MSU aviation program is at 28 aircraft and has purchase orders for 10 additional aircraft over the next 2 years. Site prep would allow an unused area to accommodate a large 40,000 hangar to be build by North Star Aviation for MSU aviation aircraft. Hangar would be privately funded.

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Hangar Site Prep	0	0	330,000	0	0	330,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>330,000</b>	<b>0</b>	<b>0</b>	<b>330,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	0	99,000	0	0	99,000
MnDOT	0	0	231,000	0	0	231,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>330,000</b>	<b>0</b>	<b>0</b>	<b>330,000</b>

### Project Timeline

2020 - Design

2021 - Site Prep

2022 - Construction

## Project: Construct Wildlife/Security Fencing & Perimeter Road

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

### Project Description

Airfield - Construct Wildlife/Security Fencing and Perimeter Road

### Project Justification

Combined project to increase height on wildlife fence and construct perimeter road

### Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

### Project Uses

	2020	2021	2022	2023	2024	Total
Wildlife/Security Fence & Perimeter Road	0	0	0	1,500,000	0	1,500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>1,500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	0	0	75,000	0	75,000
FAA	0	0	0	1,350,000	0	1,350,000
MnDOT	0	0	0	75,000	0	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>1,500,000</b>

### Project Timeline

2022

## Project: Design T-Hangar

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

## Project Description

Hanger Projects - Design T-Hangar

## Project Justification

Design for Replacement T-Hangar (3130)

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Design T-Hangar	0	0	0	75,000	0	75,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>0</b>	<b>75,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	0	0	22,500	0	22,500
MnDOT	0	0	0	52,500	0	52,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>	<b>0</b>	<b>75,000</b>

## Project Timeline

2023

## Project: Relocate Airport Beacon

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

## Project Description

Relocation of the existing 1970 airport beacon.

## Project Justification

Beacon relocation is necessary for the construction of the Airport Rescue Fire Fighting and Snow Removal Equipment building.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Relocate Airport Beacon	0	0	0	35,000	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>35,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	0	0	1,750	0	1,750
FAA	0	0	0	31,500	0	31,500
MnDOT	0	0	0	1,750	0	1,750
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>35,000</b>

## Project Timeline

2020 - Beacon relocation

## Project: Update Airport Master Plan / ALP

Department: SALES TAX - AIRPORT

Project Years: 2023 - 2023

### Project Description

Master Plan - Update Airport Master Plan/ALP

### Project Justification

Mid-cycle Airport Master Plan update

### Engagement Strategy

***Community projects, including sales tax items***

- ◆ Community Investment Plan open house (future opportunities--detailed on overall Community Investment Plan communications and engagement action plan)
- ◆ City website (Community Investment Plan project pages and respective web page)
- ◆ Direct mail to area residents living near project
- ◆ Focus groups
- ◆ Pop-up events
- ◆ Informational materials (print and electronic)
- ◆ Online newsletter
- ◆ News release and email notification asking for input
- ◆ Utility insert
- ◆ Online engagement tools
- ◆ Surveys (online)
- ◆ Online city calendar
- ◆ Social media
- ◆ Video
- ◆ Other

***City projects, including sales tax items***

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Master Plan	0	0	0	150,000	0	150,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>150,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Airport CIP	0	0	0	7,500	0	7,500
FAA	0	0	0	135,000	0	135,000
MnDOT	0	0	0	7,500	0	7,500
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>150,000</b>

## Project Timeline

2023





## **SALES TAX - PARKING**



## Cash Flow

### Sales Tax - Parking

	2020	2021	2022	2023	2024
Projected fund balance	\$ 1,152,447.82	\$ 980,447.82	\$ 1,080,447.82	\$ 780,447.82	\$ 945,447.82
Sales Tax - Parking	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00
<b>Available Funds</b>	<b>\$ 1,352,447.82</b>	<b>\$ 1,180,447.82</b>	<b>\$ 1,280,447.82</b>	<b>\$ 980,447.82</b>	<b>\$ 1,145,447.82</b>

Project Name	2020	2021	2022	2023	2024	Total	Illustrative
Mankato Place Ramp - Feasibility Study for Center Stairwell	\$	\$ (35,000.00)				\$ (35,000.00)	
Parking District Gum Removal Machine Replacement	\$ (12,000.00)					\$ (12,000.00)	
Mankato Place Ramp - Connecting Skyways	\$ (160,000.00)					\$ (160,000.00)	
Civic Center Ramp Riverfront Dr. Stairwell	\$ (175,000.00)					\$ (175,000.00)	
Civic Center Ramp - Elevator Sump Pump Reconfiguration	\$ (25,000.00)					\$ (25,000.00)	
Cherry St Ramp Stairwells	\$	\$ (25,000.00)				\$ (25,000.00)	
Mankato Place Ramp Stairwells	\$	\$ (40,000.00)				\$ (40,000.00)	
Mankato Place Ramp - Center Stairwell Reconstruction						\$ -	\$ (200,000.00)
Civic Center Ramp - Exterior Improvements			\$ (500,000.00)			\$ (500,000.00)	
Broad Street Ramp			\$	\$ (35,000.00)		\$ (35,000.00)	
<b>Total</b>	<b>\$ (372,000.00)</b>	<b>\$ (100,000.00)</b>	<b>\$ (500,000.00)</b>	<b>\$ (35,000.00)</b>	<b>\$ -</b>	<b>\$ (1,007,000.00)</b>	<b>\$ (200,000.00)</b>

Fund Balance	\$ 980,447.82	\$ 1,080,447.82	\$ 780,447.82	\$ 945,447.82	\$ 1,145,447.82
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## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Civic Center Ramp - Elevator Sump Pump Reconfiguration	2020	25,000
Civic Center Ramp Riverfront Drive Stairwell	2020	175,000
Mankato Place Ramp - Connecting Skyways	2020	160,000
Parking District Gum Removal Machine Replacement	2020	12,000
<b>Subtotal</b>		<b>372,000</b>
<b>Total</b>		<b>372,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Cherry Street Ramp Stairwells	2021	25,000
Mankato Place Ramp - Feasibility Study for Center Stairwell	2021	35,000
Mankato Place Ramp Stairwells	2021	40,000
<b>Subtotal</b>		<b>100,000</b>
<b>Total</b>		<b>100,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Civic Center Ramp - Exterior Improvements	2022	500,000
<b>Subtotal</b>		<b>500,000</b>
<b>Total</b>		<b>500,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Broad Street Ramp	2023	35,000
<b>Subtotal</b>		<b>35,000</b>
<b>Total</b>		<b>35,000</b>

## Illustrative CIP Fund Overview

Project Name	Project Costs
Mankato Place Ramp Center Stairwell	200,000
<b>Subtotal</b>	<b>200,000</b>
<b>Total</b>	<b>200,000</b>

## Project: Civic Center Ramp - Elevator Sump Pump Reconfiguration

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Reconfigure the existing sump pump for the Civic Center Ramp.

### Project Justification

The existing sump pump for the Civic Center Ramp elevator is located under the elevator car. When issues arise, Minnesota Elevator is required to be on site to provide staff access to the sump pump. There is space behind the elevator shaft to move the sump pump pit to allow access for staff.

### Project Uses

	2020	2021	2022	2023	2024	Total
Sump Pump Reconfiguration	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	25,000	0	0	0	0	25,000
<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Construction to take place in late summer of 2020.

## Project: Civic Center Ramp Riverfront Drive Stairwell

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Replace the front glass windows, 5 door replacement and rehab portions of the steps.

### Project Justification

The front glass and frame work have settled causing a sag throughout the levels. This has broken seals on 80% of window panes and the main entrance door does not operate properly. The different level doors are rusting and becoming inoperable.

### Project Uses

	2020	2021	2022	2023	2024	Total
Parking ramp improvements	175,000	0	0	0	0	175,000
<b>Total</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	175,000	0	0	0	0	175,000
<b>Total</b>	<b>175,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175,000</b>

### Project Timeline

2nd quarter - 2020

## Project: Mankato Place Ramp - Connecting Skyways

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Sandblast and paint the three skyways connecting the Mankato Place Ramp to the Intergovernmental Center and Mankato Place Mall.

### Project Justification

The original coatings on the steel structure is failing and needs to be removed and the steel super structure will need to be primed and painted. This will provide an additional 10 to 15 years of protection for the super structure.

### Project Uses

	2020	2021	2022	2023	2024	Total
Parking Improvements	160,000	0	0	0	0	160,000
<b>Total</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	160,000	0	0	0	0	160,000
<b>Total</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>

### Project Timeline

Project will be completed in the summer of 2020.

## Project: Parking District Gum Removal Machine Replacement

Department: SALES TAX - PARKING

Project Years: 2020 - 2020

### Project Description

Replacement of the gum removal machine.

### Project Justification

The current machine has been in service for several years and has exceeded its life expectancy. To ensure continued use of the machine to keep the special service district in pristine condition, a new machine needs to be acquired.

### Project Uses

	2020	2021	2022	2023	2024	Total
Gum removal machine	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	12,000	0	0	0	0	12,000
<b>Total</b>	<b>12,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,000</b>

### Project Timeline

Machine will be purchase in spring of 2020 in preparation for the summer cleaning schedule.



## Project: Cherry Street Ramp Stairwells

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Floor coatings and paint the stairwells in the Cherry Street Ramp

### Project Justification

Enhance appearance of the stairwells and ensure that investment is protected from corrosion.

### Project Uses

	2020	2021	2022	2023	2024	Total
Parking ramp improvements	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	25,000	0	0	0	25,000
<b>Total</b>	<b>0</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

### Project Timeline

Summer of 2021

## Project: Mankato Place Ramp - Feasibility Study for Center Stairwell

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Engineering study to determine feasibility of rebuilding the center stairwell in the Mankato Place Ramp.

### Project Justification

After the north stairwell and elevator was installed, the former elevator was removed from the center and original location. A study needs to be completed to determine the feasibility of removing the elevator shaft and rebuilding the stairs to make it a more accessible and used space.

### Project Uses

	2020	2021	2022	2023	2024	Total
MPR Center Stairwell Study	0	35,000	0	0	0	35,000
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	35,000	0	0	0	35,000
<b>Total</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

### Project Timeline

Feasibility study will be undertaken in the winter of 2021.

## Project: Mankato Place Ramp Stairwells

Department: SALES TAX - PARKING

Project Years: 2021 - 2021

### Project Description

Painting of the stairwell interiors as well as installation of a floor coating in the south stairwell.

### Project Justification

Enhance appearance of stairwells

### Project Uses

	2020	2021	2022	2023	2024	Total
Parking ramp improvements	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	40,000	0	0	0	40,000
<b>Total</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

### Project Timeline

Summer of 2021

## Project: Civic Center Ramp - Exterior Improvements

Department: SALES TAX - PARKING

Project Years: 2022 - 2022

### Project Description

Installation of exterior improvements to resemble the Mankato Place Ramp.

### Project Justification

Exterior upgrades are recommended to improve the appearance of the ramp and bring more cohesiveness to the downtown parking district facilities.

### Project Uses

	2020	2021	2022	2023	2024	Total
Civic Center Ramp - Exterior Improvements	0	0	500,000	0	0	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	500,000	0	0	500,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

### Project Timeline

Bidding will take place in spring of 2022 with construction to follow in the summer months.

## Project: Broad Street Ramp

Department: SALES TAX - PARKING

Project Years: 2023 - 2023

## Project Description

Replace the upper level railings, tuck point all block mortar joints and repaint all block walls.

## Project Justification

Railings are rusting and block walls have numerous areas where mortar is missing.

## Project Uses

	2020	2021	2022	2023	2024	Total
Parking ramp improvements	0	0	0	35,000	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>35,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	0	0	0	35,000	0	35,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>	<b>0</b>	<b>35,000</b>

## Project Timeline

2nd quarter - 2023





# **SALES TAX - SPECIAL PROJECTS**





# Cash Flow

## City Sales Tax Existing and Future Cash Flow

August 19, 2019	2019	2020	2021	2022	2023	2024	Total
<b>Balance on January 1</b>	1,738,772	1,535,297	1,374,972	1,703,647	1,938,122	1,576,922	
<b>Cash Inflows:</b>							
Interest	5,000	5,000	5,000	5,000	5,000	5,000	50,000
Vehicle Tax	220,000	220,000	220,000	220,000	220,000	220,000	2,200,000
Sales Tax Proceeds	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	54,300,000
<b>Available Funds</b>	7,363,772	7,160,297	7,199,972	7,328,647	7,563,122	7,201,922	95,552,720
<b>Cash Outflows:</b>							
<b>Existing Debt Service Obligations:</b>							
Debt Service - 2015 Expansion - Principal only	(1,485,000)	(1,970,000)	(2,070,000)	(2,170,000)	(2,260,000)	-	(10,155,000)
*** Does not include \$ 1.7MM to \$ 2.2MM for Debt Reserve							
<b>Building Capital Repayments - Internal Financing:</b>							
Capital Repayment - CC Expansion	(300,000)	(100,000)	(100,000)	(100,000)	(500,000)	(800,000)	(3,994,000)
Capital Repayment - Franklin Rogers Park	(100,000)	(100,000)	(100,000)	(500,000)	(600,000)	(800,000)	(4,028,700)
Pre-2007 Deficits	(200,000)	(100,000)	(100,000)	(500,000)	(463,000)		(1,353,000)
<b>Existing Annual Obligations:</b>							
Bond Interest / Core Block / Admin	(1,294,325)	(1,114,325)	(1,114,325)	(1,114,325)	(1,073,200)	(1,030,000)	(18,930,500)
<b>Existing Depreciation Funds:</b>							
Capital Replacement Transfer - RFP	(100,000)	(100,000)	(100,000)	(100,000)	(200,000)	(200,000)	(3,500,000)
Capital Replacement Transfer - Parking	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	(4,000,000)
Capital Replacement Transfer - Airport	(100,000)	(400,000)	(400,000)	(400,000)	(400,000)	(400,000)	(3,600,000)
Capital Replacement Transfer - Civic Center	(450,000)	(450,000)	(450,000)	-	-	-	(5,850,000)
<b>Capital Repayments:</b>							
Capital Repayment - Arena De-Humidification	(240,000)	-	-	-	-	-	(240,000)
Capital Repayment - Tourlette Pool / Aquatic	(200,000)	(100,000)	(62,000)	-	-	-	(362,000)
Capital Repayment - Flood Levees / Central	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	(1,700,000)
Capital Repayment - Curling Club	-	(100,000)	(100,000)	(6,200)	-	-	(206,200)
Capital Repayment - Riverfront Park	(69,150)	(1,000)	(200,000)	-	-	-	(270,150)
Project - Thomas Park - Girls Youth Softball (Design Phase)	(70,000)	-	-	-	-	-	(70,000)
Project - Rosa Parks CAF - Youth Baseball Fields (Design Phase)	(30,000)	-	-	-	-	-	(30,000)
Project - Existing Facilities - Youth Hockey (Design Phase)	(50,000)	-	-	-	-	-	(50,000)
Project - Water Quality	-	(100,000)	-	-	-	-	(100,000)
Project - Blue Earth County Historical Society	(80,000)	-	-	-	-	-	(80,000)
Project - VINE Retaining Wall	(250,000)	-	-	-	-	-	(250,000)
Project - POW WOW / No-casino Park	(110,000)	-	-	-	-	-	(110,000)
Project - Regional Park / Land of Memories / BNC	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(650,000)
Project - Armer Radio / Police	-	(450,000)	(200,000)	-	-	-	(650,000)
Projected Expenditures	(5,828,475)	(5,585,325)	(5,496,325)	(5,390,525)	(5,984,200)	(3,730,000)	(42,259,550)
<b>Balance on December 31</b>	1,535,297	1,574,972	1,703,647	1,938,122	1,576,922	3,471,922	
*** Civic Center Debt Service Reserve \$ 1.7MM to \$ 2.2MM	1,700,000	2,000,000	2,100,000	2,200,000	-	-	

\*\*\* Internally Financed 3.9MM Civic Center Expansion

\*\*\* Internally Financed 4.0MM Franklin Rogers Park Stadium

\*\*\* Internally Financed 240 K Remaining for Arena De-Humidification

## 2020 CIP Fund Overview

Project Name	Project Year	Project Costs
Regional Park / Land of Memories / ENC	2020	100,000
Replace ARMER Radios	2020	450,000
Water Quality	2020	100,000
<b>Subtotal</b>		<b>650,000</b>
<b>Total</b>		<b>650,000</b>

## 2021 CIP Fund Overview

Project Name	Project Year	Project Costs
Regional Park / Land of Memories / ENC	2021	100,000
Replace ARMER Radios	2021	200,000
<b>Subtotal</b>		<b>300,000</b>
<b>Total</b>		<b>300,000</b>

## 2022 CIP Fund Overview

Project Name	Project Year	Project Costs
Regional Park / Land of Memories / ENC	2022	100,000
<b>Subtotal</b>		<b>100,000</b>
<b>Total</b>		<b>100,000</b>

## 2023 CIP Fund Overview

Project Name	Project Year	Project Costs
Regional Park / Land of Memories / ENC	2023	100,000
<b>Subtotal</b>		<b>100,000</b>
<b>Total</b>		<b>100,000</b>

## 2024 CIP Fund Overview

Project Name	Project Year	Project Costs
Regional Park / Land of Memories / ENC	2024	100,000
<b>Subtotal</b>		<b>100,000</b>
<b>Total</b>		<b>100,000</b>

## Project: Regional Park / Land of Memories / ENC

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2020 - 2024

### Project Uses

	2020	2021	2022	2023	2024	Total
Upgrades	100,000	100,000	100,000	100,000	100,000	500,000
Total	100,000	100,000	100,000	100,000	100,000	500,000

### Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	100,000	100,000	100,000	100,000	100,000	500,000
Total	100,000	100,000	100,000	100,000	100,000	500,000

## Project: Replace ARMER Radios

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2020 - 2021

### Project Description

This project will replace all Public Safety portable and mobile vehicle ARMER radios with upgraded next generation Motorola APX P25 radios. The project will also include the installation of a radio management system and higher level of encryption for the radios. Replacing Public Safety radios will allow for the transfer of certain portable radios to the Public Works Department and Verizon Center in order to bring them onto the Statewide ARMER Raioed System for inter-operable radio communication with public safety during critical incidents or community emergencies.

### Project Justification

The current radios used by Public Safety personnel were put into service in 2012 and will be 8 years old at the end of 2019. Motorola stopped manufacturing our current radios in 2014 and will no longer provide repair service or support after December 31, 2019. These radios require technical and software updates frequently, which we will no longer be able to complete due to the "end of life" of these radios.

The upgraded radios will allow for Bluetooth connections to be made by fire staff while wearing SCBA equipment, creating more clear and safe communications during a structure fire or other incident requiring the use of SCBA equipment.

Currently, in order to reprogram the radios, they must be taken out of service for a period of time to connect them to a computer to complete the programming or install the update. The installation of the Radio Management System would allow for these updates to be completed utilizing wireless technology while keeping the radios, and personnel, in service. This option also saves the staff time needed to physically complete the updates.

Our current radios have a basic level of encryption for talk-group security. With the advancement of technology, programs are available to the media, public, and criminals to help defeat these basic levels of encryption in order to monitor public safety communications. It is becoming increasingly common for public safety agencies to enhance their encryption level in order to prevent this monitoring from occurring. By increasing the encryption level of new police radios, we will have the option to utilize enhanced encrypted talk-groups for normal communications or specific incidents that the general public, media, and criminals cannot monitor.

As of today, Public Safety, Public Works, and Civic Center personnel are on different radio systems and are unable to communicate directly during a critical incident or community emergency.

With the purchase of new Public Safety radios, the transfer of existing properly working radios to Public Works and Civic Center personnel will allow these service areas to migrate onto the Statewide ARMER radio system. This will allow for complete radio inter-operability between each of these service areas during critical incidents or community emergencies.

Lastly, the Civic Center radio system currently utilizes two city owned 800MHz repeated radio channels. Once the Civic Center has been migrated to the Statewide ARMER radio system, these two radio channels will be programmed into each Public Safety radio and utilized as a back-up radio system for Public Safety should the Statewide ARMER radio system fail or local ARMER infrastructure be damaged due to a natural disaster.

## Engagement Strategy

- ◆ Community Investment Plan open house
- ◆ City website (Community Investment Plan project pages)

## Project Uses

	2020	2021	2022	2023	2024	Total
Purchase Radios	450,000	200,000	0	0	0	650,000
<b>Total</b>	<b>450,000</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	450,000	200,000	0	0	0	650,000
<b>Total</b>	<b>450,000</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650,000</b>

## Project Timeline

This project will be completed during a 4 year timeline beginning in 2020 with the replacement of full-time personnel portable radios and installing the Radio Management System. This phase will allow for existing radios to be transferred to Public Works and Civic Center personnel. The next 3 years of the timeline will see the replacement of part-time and reserve personnel radios (2021), vehicle mobile radios (2022), and any remaining personnel (2023).

## Project: Water Quality

Department: SALES TAX - SPECIAL PROJECTS

Project Years: 2020 - 2020

## Project Uses

	2020	2021	2022	2023	2024	Total
Water Quality	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

## Funding and Sources

	2020	2021	2022	2023	2024	Total
Sales Tax	100,000	0	0	0	0	100,000
<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>